

Set up AEM Dispatcher on macOS

**EXPERIENCE MANAGER** ▾

An accelerated video of setting up AEM Dispatcher on macOS. This walk-through does not address all configurations in Apache HTTPD Web Server or AEM Dispatcher, but rather focuses on the basic configuration to get AEM Dispatcher up and running.



This is an accelerated walk through of setting up AEM Dispatcher on macOS, using the macOS installation of Apache HTTPD Web Server.

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Note:

At the time of recording (January, 2017) the macOS [homebrew](#) install of Apache HTTPD Web Server does NOT work with AEM Dispatcher module due to limitations in how homebrew builds the [Apache Portable Runtime](#) (APR) dependency.

- 1 Collect Apache HTTPD Web Server install information.

```
1 | $ httpd -V
```

- 2 [Download the appropriate AEM Dispatcher build.](#)

- 3 Copy the AEM Dispatcher module file to Apache HTTPD Web Server's libexec folder.

```
1 | $ sudo mkdir -p /private/libexec/apache2
2 | $ sudo cp ~/Downloads/dispatcher-
  apache2.4-darwin-x86-64-4.2.1/dispatcher-
  apache2.4-4.2.1.so
  /private/libexec/apache2/mod_dispatcher
```

- 4 Update Apache HTTPD Web server's httpd.conf file to include (1) the AEM Dispatcher module (2) the AEM Dispatcher Module configuration and (3) inclusion of vhost configuration files.

```
1 | $ sudo vi
  /private/etc/apache2/httpd.conf
```

```
1 | LoadModule dispatcher_module
  /private/libexec/apache2/mod_dispatcher
```

```
1 | <IfModule disp_apache2.c>
2 |
3 |     # location of the configuration
4 |     file. eg: 'conf/dispatcher.any'
5 |     DispatcherConfig
6 |     /private/etc/apache2/conf/dispatcher.
7 |
8 |     # location of the dispatcher log
9 |     file. eg: 'logs/dispatcher.log'
10 |
```

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```

14 # log level for the dispatcher log
15 can be either specified
16 # as a string or an integer (in
17 parentheses)
18 # error(0): Errors
19 # warn(1): Warnings
20 # info(2): Infos
21 # debug(3): Debug
22 # trace(4): Trace
23 # Ensure debug logging is only
24 enabled on development environments as
25 the log files can become large quickly
26 DispatcherLogLevel debug
27
28 # if turned on, the dispatcher logs
29 like a normal module
30 DispatcherNoServerHeader Off
31
32 # if turned on, requests to / are
33 handled by the dispatcher
34 # use the mod_alias then for the
35 correct mapping
36 DispatcherDeclineRoot Off
37
38 # if turned on, the dispatcher uses
39 the URL already processed
40 # by handlers preceding the
41 dispatcher (i.e. mod_rewrite)
42 # instead of the original one passed
43 to the web server.
44 DispatcherUseProcessedURL On
45
46 # if turned to 1, the dispatcher
47 does not spool an error
48 # response to the client (where the
49 status code is greater
50 # or equal than 400), but passes
    status code to
    # Apache, which e.g. allows an
    ErrorDocument directive
    # to process such a status code.
    #
    # Additionally, one can specify the
    status code ranges that should
    # be left to web server to handle
    e.g.
    #
    # DispatcherPassError 400-404,501
    DispatcherPassError 0
    #
    # DispatcherKeepAliveTimeout
    specifies the number of seconds a
  
```

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```

#DispatcherKeepAliveTimeout 60

</IfModule>

```

```

1 | Include
   /private/etc/apache2/vhosts/*.conf

```

5 Create a vhost file for your local AEM Publish instance.

```

1 | $ sudo mkdir -p
2 | /private/etc/apache2/vhosts
3 | $ sudo cp
   /private/etc/apache2/extra/httpd-
   vhosts.conf
   /private/etc/apache2/vhosts/aem-
   publish.local.conf
   $ sudo vi
   /private/etc/apache2/vhosts/aem-
   publish.local.conf

```

```

1 | <VirtualHost *:80>
2 |     <Directory
3 |     /Library/WebServer/docroot/publish>
4 |         <IfModule disp_apache2.c>
5 |             SetHandler dispatcher-
6 | handler
7 |             ModMimeUsePathInfo On
8 |         </IfModule>
9 |
10 |     Options FollowSymLinks
11 |     AllowOverride None
12 |
13 |     # Apache httpd 2.2
14 |     # Order allow,deny
15 |     # Allow from all
16 |
17 |     # Apache httpd 2.4
18 |     Require all granted
19 | </Directory>
20 |
21 |     ServerName aem-publish.local
22 |     ServerAlias www.aem-
23 | publish.local
24 |     DocumentRoot
       "/Library/WebServer/docroot/publish"
       ErrorLog
       "/private/var/log/apache2/aem-
       publish.local-error_log"

```

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~/VirtualHosts/

- 6 Ensure the vhost's docroot exists and is owned by the Apache HTTPD Web Server user.

```
1 $ sudo mkdir -p
2 /Library/WebServer/docroot/publish
$ sudo chown -R _www:_www
/Library/WebServer/docroot
```

- 7 Copy over the sample AEM Publish dispatcher.any file and update it to match your configuration.

```
1 $ sudo cp ~/Downloads/dispatcher-
2 apache2.4-darwin-x86-64-
4.2.1/conf/dispatcher.any
/private/etc/apache2/conf/dispatcher.a:
$ sudo vi
/private/etc/apache2/conf/dispatcher.a:
```

```
1 /virtualhosts {
2     "aem-publish.local"
3 }
```

```
1 /renders {
2     /rend01 {
3         /hostname "127.0.0.1"
4         /port "4503"
5     }
6 }
```

```
1 /cache {
2     /docroot
3     "/Library/WebServer/docroot/publish"
4     ...
5     /enableTTL "1"
6 }
```

- 8 Ensure your vhost will resolve by adding an entry to /etc/hosts

```
1 $ sudo vi /etc/hosts
```

```
1 127.0.0.1 aem-publish.local
```

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```
1 | $ sudo apachectl configtest
2 | $ sudo apachectl restart
```

- 10 Tail your dispatcher.log and watch for issues such as "Filter rejects" log messages.

```
1 | $ tail -f
    /private/var/log/apache2/dispatcher.log
```

```
1 | $ tail -f
    /private/var/log/apache2/dispatcher.log
    | grep rejects
```

Supporting materials

- [Download AEM Dispatcher](#)
- [Adobe AEM Dispatcher Docs](#)

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