

Installing / Configuring Mobile Synchronization with Zimbra 8 Open Source

Have you ever wanted to perform mobile synchronization with the open source edition of Zimbra? I have for the past few years and just could not afford the network edition. I found some information of other people successfully completing the steps with this same software but I needed to duplicate this process for each domain that I host and wrote this instruction tutorial so that when I got to the end, the mobile synchronization would work.

The following instructions must be completed on the server that has a webserver and services the domain you want to do mobile synchronization with. For this the website will be configured as a virtual host so it does not mess with the domain's website and the domain's email resides on another server.

1. Install the required software
 - a. **yum install php-cli php-soap php-process**
2. Download Z-Push from z-push.sourceforge.net. At the time of this document, version 2.1.0 final was released.
 - a. Download the software using `wget` on the console of the server
 - i. **wget http://zarafa-deutschland.de/z-push-download/final/2.1/z-push-2.1.0-1750.tar.gz**
 - b. Extract the archive
 - i. **tar xvf z-push-2.1.0-1750.tar.gz**
 - c. Make directory to hold files
 - i. **mkdir /usr/share/z-push**
 - ii. **mkdir /var/lib/z-push**
 - iii. **mkdir /var/log/z-push**
 - d. Change Ownership of newly created directories to be same as user/group of webserver
 - i. **chown apache:apache /var/lib/z-push**
 - ii. **chown apache:apache /var/log/z-push**
 - e. Move files from extracted archive to directory created in previous step
 - i. **mv z-push-2.1.0-1750/* /usr/share/z-push**
 - f. Configure Webserver for Alias. If the webserver has been configured for multiple websites as my server has, you would need to add the following line to the virtual host entry for the domain.
 - i. `Alias /Microsoft-Server-ActiveSync /usr/share/z-push/index.php`
 - g. Change Ownership of the z-push directory to the owner:group that your webserver uses to run as. In my case apache is configured to run as apache:apache
 - i. **chown apache:apache -R /usr/share/z-push**
 - h. Modify the `config.php` file within `/usr/share/z-push` to reflect your specific server configuration. In my case these are changes the settings below is for my configuration
 - i. `TIMEZONE = America/Indiana/Indianapolis`
 - ii. `LOGLEVEL = LOGLEVEL_DEBUG`
 - iii. `LOGAUTHFAIL = true`
 - iv. `BACKEND_PROVIDER = BackendZimbra`
 - i. Restart Webserver
 - i. `service httpd restart`
3. Download Z-Push ZImbra Backend from sourceforge.net/projects/zimbrabackend and upload to your webserver

Installing / Configuring Mobile Synchronization with Zimbra 8 Open Source

- a. Extract archive downloaded. At time of this document the filename is zimbra56.1-zpush2—zimbra54-zpush1-as12.t.tgz
- b. Create Directory for files
 - i. `mkdir /usr/share/z-push/backend/zimbra`
- c. Copy files from archive to newly created directory
 - i. `cd zimbra56.1`
 - ii. `cp z-push-2/* -R /usr/share/z-push/backend/zimbra`
- d. Change Ownership:Group Rights on all files within /usr/share/z-push to the User:Group of the Webserver installed on the machine. In my case, apache is running as apache:apache
 - i. `chown apache:apache -R /usr/share/z-push`
- e. Modify /usr/share/z-push/backend/zimbra/config.php
 - i. Change ZIMBRA_URL to point to your server. In my case the value is `https://zimbra.yourcfpro.com`

Note: This section goes over the instructions on how to secure the website with an SSL Certificate. For this process, I used a RapidSSL Certificate due to the cost. If you need a place to purchase SSL Certificates from, I can do this through my reseller account. I pass savings on to those that use me as a way to provide customer satisfaction. The SSL Certificate I created was for just the domain and no sub hostname (w9gsp.net instead of www.w9gsp.net)

1. Download RapidSSL Intermediate CA from the following URL:
 - a. `wget`
https://knowledge.rapidssl.com/library/VERISIGN/ALL_OTHER/RapidSSL%20Intermediate/RapidSSL_CA_bundle.pem
 - b. Rename the file RapidSSL_CA_bundle.pem to intermediate.crt
 - i. `mv RapidSSL_CA_bundle.pem intermediate.crt`
2. Copy the domain certificate from your email and place it on the server
3. Modify /etc/httpd/conf.d/ssl.conf
 - a. `<VirtualHost *:443>`
 - b. `ServerAdmin webmaster@w9gsp.net`
 - c. `ServerName w9gsp.net`
 - d. `ServerAlias autodiscover.w9gsp.net`
 - e. `Alias /Microsoft-Server-ActiveSync /usr/share/z-push/index.php`
 - f. `HostnameLookups Off`
 - g. `ServerSignature On`
 - h. `UseCanonicalName Off`
 - i. `DirectoryIndex index.cfm`
 - j. `DocumentRoot /var/www/virtuals/www.w9gsp.net/ssl-www`
 - k. `SSLCertificateFile /etc/httpd/ssl/w9gsp.net.crt`
 - l. `SSLCertificateKeyFile /etc/httpd/ssl/ServerSSLKey.key`
 - m. `SSLCertificateChainFile /etc/httpd/ssl/intermediate.crt`
 - n. `SSLEngine on`

Installing / Configuring Mobile Synchronization with Zimbra 8 Open Source

- o. SSLProtocol all
- f. </VirtualHost>