# Deploying Winesaps Website

## Preparing the host

# please prepare your host, install firewalld and add EPEL repository according to deploying\_guide.docx

# install web-server

sudo yum install lighttpd

sudo chkconfig lighttpd on

# disable (comment) IPv6 in /etc/lighttpd/lighttpd.conf:

#server.use-ipv6 = "enable"

# start!

sudo service lighttpd start

# open up ports

sudo firewall-cmd --add-port=80/tcp --permanent

sudo iptables -I INPUT 1 -p tcp --dport 80 -j ACCEPT

# now copy your content to /var/www/lighttpd/

#note (2019-01-29): if it shows “403 FORBIDDEN”, run the server manually:

lighttpd -f /etc/lighttpd/lighttpd.conf

## Enabling SSL

# first ensure lighttpd supports SSL (there must be ‘ssl’ in server’s version):

lighttpd -v

# lighttpd/1.4.45 (ssl) - a light and fast webserver

# stop it!

sudo serice lighttpd stop

# open up ports

sudo firewall-cmd --add-port=443/tcp --permanent

sudo iptables -I INPUT 1 -p tcp --dport 443 -j ACCEPT

# this guide uses free Let’s Encrypt certificates (<https://letsencrypt.org>)

# feel free to use any other CA you wish

sudo yum install certbot

#note (2018-01-15): if you have no such a package, you can use this (<https://certbot.eff.org>):

wget https://dl.eff.org/certbot-auto

chmod a+x certbot-auto

sudo certbot certonly --standalone -d winesaps.com

cd /etc/letsencrypt/live/winesaps.com

# copy the SSL certificates

mkdir /etc/lighttpd/ssl/winesaps.com

# copy all actual files (not links!) to /etc/lighttpd/ssl/winesaps.com/

# we have to have a common PEM-file that contains BOTH private key and certificate:

cat privkey1.pem cert1.pem > winesaps.com.pem

chown lighttpd:lighttpd /etc/lighttpd/ssl/winesaps.com/ -R

chmod 0600 /etc/lighttpd/ssl/winesaps.com/ -R

# now add the following to /etc/lighttpd/lighttpd.conf:

$SERVER["socket"] == ":443" {  
 ssl.engine = "enable"  
 ssl.pemfile = "/etc/lighttpd/ssl/winesaps.com/winesaps.com.pem"  
 ssl.ca-file = "/etc/lighttpd/ssl/winesaps.com/fullchain1.pem"  
 server.name = "winesaps.com"  
 server.document-root = "/var/www/lighttpd/"  
 server.errorlog = "/var/log/lighttpd/winesaps.com/serror.log"  
 accesslog.filename = "/var/log/lighttpd/winesaps.com/saccess.log"  
}

service lighttpd start

## Comodo SSL (deprecated)

#note (2018-08-13): it turned out that Comodo SSL certificate is NOT free, it is 3-month trial!

#note (2018-04-16): I discovered issues with “certbot” (infinite redirect loop in Python 3.4 dependencies), so I decided to re-issue a new free SSL certificate with Comodo.

# stop the server (optional):

service lighttpd stop

# first ensure you’ve got an access to one of the following e-mails:

# [admin@winesaps.com](mailto:admin@winesaps.com)

# [administrator@winesaps.com](mailto:administrator@winesaps.com)

# [hostmaster@winesaps.com](mailto:hostmaster@winesaps.com)

# [webmaster@winesaps.com](mailto:webmaster@winesaps.com)

# visit <https://ssl.comodo.com/free-ssl-certificate.php> and create new SSL certificate

# Comodo will ask you for Certificate Signing Request (CSR)

# create Certificate Signing Request (CSR) on our server:

openssl req -new -newkey rsa:2048 -nodes -keyout winesaps.com.key -out winesaps.com.csr

# copy and paste CSR as plain text to Comodo web-site

# Comodo will send you verification code to one of above-mentioned e-mails to ensure that the domain belongs to you

# after these steps Comodo will send you ZIP-archive with 4 crt-files; copy them to the web-server

# as usual, lighttpd needs us to concatenate the private key with our certificate:

cat winesaps.com.key winesaps\_com.crt > winesaps.com.pem

# copy this pem-file (and all other crt-files) to /etc/lighttpd/ssl/winesaps.com

# open /etc/lighttpd/lighttpd.conf and add the following:

$SERVER["socket"] == ":443" {  
 ssl.engine = "enable"  
 ssl.pemfile = "/etc/lighttpd/ssl/winesaps.com/winesaps.com.pem"  
 ssl.ca-file = "/etc/lighttpd/ssl/winesaps.com/AddTrustExternalCARoot.crt "  
 server.name = "winesaps.com"  
 server.document-root = "/var/www/lighttpd/"  
 server.errorlog = "/var/log/lighttpd/winesaps.com/serror.log"  
 accesslog.filename = "/var/log/lighttpd/winesaps.com/saccess.log"  
}

# now start/restart the server

service lighttpd start