

Авторизация в административный интерфейс по сертификату

vim /etc/ssl/openssl.cnf

```
[ ca ]
default_ca = CA # The default ca section
[ CA ]
dir = /usr/abills/Certs/ # Where everything is kept
certs = $dir/certs # Where the issued certs are kept
crl_dir = $dir/crl # Where the issued crl are kept
database = $dir/index.txt # database index file.
new_certs_dir = $dir/newcerts # default place for new certs.
certificate = $dir/CA/ca.crt # The CA certificate
serial = $dir/serial # The current serial number
#crlnumber = $dir/crlnumber # the current crl number must be
# commented out to leave a V1 CRL
crl = $dir/CA/ca.crl # The current CRL
private_key = $dir/CA/ca.key # The private key
x509_extensions = usr_cert
default_days = 365 # how long to certify for
default_crl_days= 30 # how long before next CRL
default_md = sha1 # which md to use.
preserve = no # keep passed DN ordering
policy = policy_match

# For the CA policy
[ policy_match ]
countryName = match
stateOrProvinceName = match
organizationName = match
organizationalUnitName = optional
commonName = supplied
emailAddress = optional

# For the 'anything' policy
[ policy_anything ]
countryName = optional
stateOrProvinceName = optional
localityName = optional
organizationName = optional
organizationalUnitName = optional
commonName = supplied
emailAddress = optional

[ req ]
default_md = sha1
distinguished_name = req_distinguished_name

[ req_distinguished_name ]
countryName = Country Name (2 letter code)
countryName_default = UA
countryName_min = 2
countryName_max = 2
stateOrProvinceName = State or Province Name (full name)
stateOrProvinceName_default = IF
localityName = Locality Name (eg, city)
localityName_default = city
0.organizationName = Organization Name (eg, company)
0.organizationName_default = Org_name
organizationalUnitName = Organizational Unit Name (eg, section)
commonName = Common Name (eg, hostname)
commonName_max = 64
emailAddress = Email Address
emailAddress_default = test
emailAddress_max = 64
```

```
[ server ]
| basicConstraints=CA:FALSE
| nsCertType = server
| keyUsage = nonRepudiation, digitalSignature, keyEncipherment
| subjectKeyIdentifier=hash
| authorityKeyIdentifier=keyid,issuer
|
| [ client ]
| basicConstraints=CA:FALSE
| nsCertType = client
| keyUsage = nonRepudiation, digitalSignature, keyEncipherment
| subjectKeyIdentifier=hash
| authorityKeyIdentifier=keyid,issuer
|
| [ v3_req ]
|
| basicConstraints = CA:FALSE
| keyUsage = nonRepudiation, digitalSignature, keyEncipherment
|
| [ v3_ca ]
|
| subjectKeyIdentifier=hash
| authorityKeyIdentifier=keyid:always,issuer:always
| basicConstraints = CA:true
| nsCertType = sslCA
|
| [ crl_ext ]
| authorityKeyIdentifier=keyid:always,issuer:always
```

```
cd /usr/abills/Certs/ && mkdir {CA,server,user}
```

echo «01» > serial

```
touch index.txt
```

Создаем сертификат организации Создаем ключ и самподписанный CA сертификат

```
openssl genrsa -rand /var/log/messages -out ./CA/ca.key -camellia256 2048
openssl req -new -key ./CA/ca.key -out ./CA/ca.csr
openssl x509 -req -signkey ./CA/ca.key -in ./CA/ca.csr -extfile /etc/ssl/openssl.cnf -out ./CA/ca.crt
```

Проверка

```
openssl x509 -in ca.crt -text
```

Теперь создаем сертификат сервера

```
openssl genrsa -rand /var/log/messages -out ./server/freebsd.local.com.key -camellia256 2048
```

COMMON NAME вводим **ДНС имя серверу** Пароль тот же что и для частного ключа freebsd.local.com.key

```
openssl req -new -key ./server/freebsd.local.com.key -config /etc/ssl/openssl.cnf -out ./server/freebsd.local.com.csr
```

и подписываем его сертификатом организации

```
openssl ca -in ./server/freebsd.local.com.csr -cert ./CA/ca.crt -keyfile ./CA/ca.key -out ./server/freebsd.local.com.crt -config /etc/ssl/openssl.cnf -days 365
```

Создаем сертификат клиента

```
openssl genrsa -rand /var/log/messages -out ./user/client.key -camellia256 2048
```

```
openssl req -new -key /user/client.key -out ./user/client.csr
```

и подписываем его сертификатом организации

```
openssl ca -in ./user/client.csr -cert ./CA/ca.crt -keyfile ./CA/ca.key -out ./user/client.crt -  
extensions client -config /etc/ssl/openssl.cnf
```

Экспортируем в формат читаемый IE, Mozilla...

```
openssl pkcs12 -export -clcerts -in ./user/client.crt -inkey ./user/client.key -out ./user/client.p12
```

или

```
openssl pkcs12 -export -clcerts -in ./user/certificates/client.crt -inkey ./user/keys/client.key -out  
./user/certificates/client.p12 -name "test certificate"
```

Копируем файл client.p12 на компьютер клиента

Редактируем конфиг /usr/abills/misc/apache/abills_httpd.conf

Вставляем между <IfModule ssl_module> </IfModule ssl_module>

```
<Location /admin>  
SSLVerifyClient require  
SSLVerifyDepth 10  
</Location>
```

Изменяем путь к сертификатам

```
SSLCertificateFile /usr/abills/Certs/server/freebsd.local.com.crt  
SSLCertificateKeyFile /usr/abills/Certs/server/freebsd.local.com.key  
SSLCACertificateFile /usr/abills/Certs/CA/ca.crt
```

Перезапускаем веб сервер

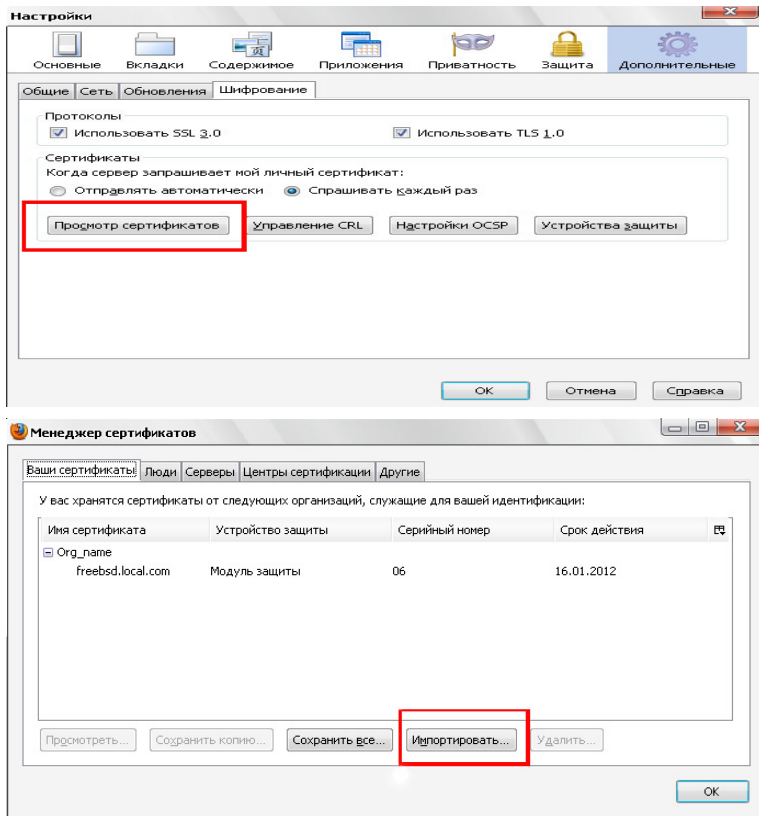
```
/usr/local/etc/rc.d/apache22 restart
```

смотрим лог ошибок

Добавляем сертификат на стороне клиента

Для для работы в Internet Explorer, GoogleChrome запускаем freebsd.local.com.p12

Для Mozilla FireFox



Дополнительные ссылки по авторизации с помощью сертификатов

<http://www.linuxconfig.org/apache-web-server-ssl-authentication>

<http://www.cafesoft.com/products/cams/ps/docs30/admin/ConfiguringApache2ForSSLTLSMutualAuthentication.html>

<http://www.symantec.com/connect/articles/apache-2-ssl-tls-step-step-part-3>

From:
<http://abills.asmodeus.com.ua/wiki/> - **Advanced Billing Solution**

Permanent link:
http://abills.asmodeus.com.ua/wiki/doku.php/abills:docs:manual:admin_cert_auth

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