

WifiConnect

SSID, IP IP , DNS-.

() iw wpa_supplicant.

:

interface	wlan0	(wlan0 wlan1),
ssid		,
scan_ssid	0 1	, () . 0 ().
bssid		, . . , . max, - .
password		WPA2-PSK
encryption	open, psk, peap, tls	, .

() SSID.

"open", .. , , (ssid), (interface, "wlan0"), .

"psk", .. , -, WPA2-PSK (preshared key), password, .

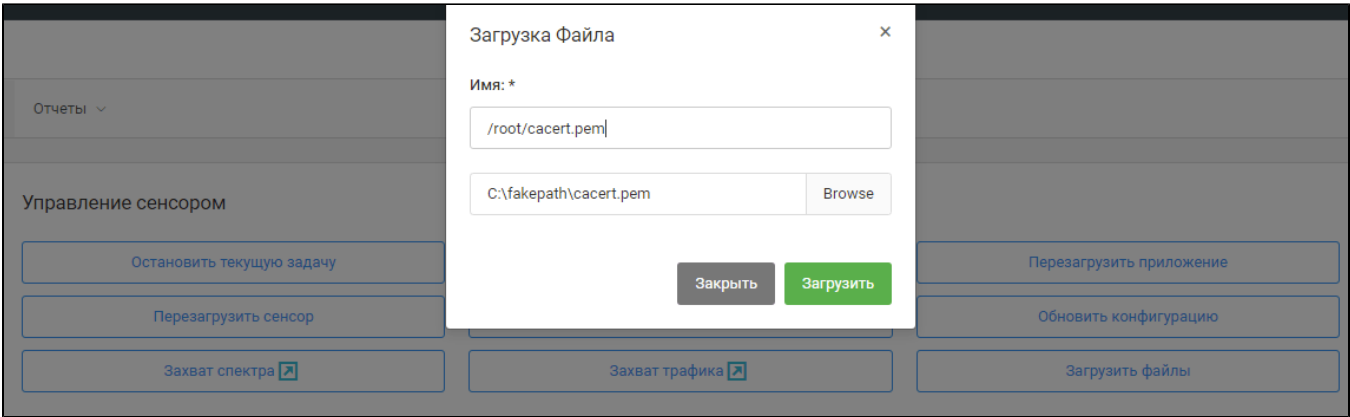
"peap", .. , 802.1 WPA2-Enterprise "-" (PEAP/MSCHAPv2), Active Directory, (password):

- ca_cert - PKI
- username - (),

"tls", .. , 802.1 WPA2-Enterprise , (password):

- ca_cert - PKI
- client_cert -
- client_key -
- key_password - () ()

- PEM (.. BASE64,), , client_key. () . "" (,). (), .: / .



:

```
root@qow-0:~# ls -la
drwxr-xr-x 1 root root 0 Feb 14 18:11 .
drwxr-xr-x 1 root root 0 Jan 22 19:18 ..
-rw-r--r-- 1 root root 99 Dec 6 10:31 .profile
-rw-r--r-- 1 root root 1428 Feb 14 18:11 cacert.pem
-rw-r--r-- 1 root root 1428 Feb 14 18:11 client.crt
-rw-r--r-- 1 root root 1679 Feb 14 18:11 client.key
drwxr-xr-x 1 root root 0 Feb 12 17:01 qow
```

!, /tmp/, ., /etc/, (, OpenWrt). Python- , /root/qow/.

EAP-TLS (encryption=tls) :

1. - PEM, , PEM . :
 - `client_cert` -
 - `client_key` -
 - `key_password` - () ()
2. - PKCS#12 (.pfx / .p12). :
 - `client_key` -
 - `key_password` - () PFX-

"".

Сводка
Результаты
Настройки
Задачи
Параметры
На к

Параметры

interface	wlan0	
phone	192.168.1.1	
ssid	CiscoEap	
encryption	tls	
ca_cert	/root/cacert.pem	
client_cert	/root/client.crt	
client_key	/root/client.key	
Имя	Значение	

Сохранить
Отменить

:

```
import json
import sys
import wnam_wifi_connection

data = ' '.join(sys.argv[1:])
json_data = json.loads(data)['data']

wnam_wifi_connection.change_network(**json_data)
```

, , :

- IP , ,
- IP DNS (), DHCP-. ya.ru google.com.

:

3. 2_Подключение к SSID	
Begin	17/12/2020 18:45:17
End	17/12/2020 18:45:28
Duration	11 seconds
Status	Success
bssid	94:83:C4:02:10:C1
channel	1
dhcp_duration	4228
exist_connection	false
ip	10.130.129.85
ssid	WNAM-Lab1
ssid_duration	267
go_ping	66
ip	8.8.8.8
ya_ping	34

ssid_duration (), dhcp_duration (IP), go_ping ya_ping (DNS-) .

" " .

"ip" DHCP IP DNS- (= 8.8.8.8).