

와이어리스 네뚜와크

와이파이 연결은 되는데 비밀번호를 까먹으셨다구요? 그런 당신을 위해 준비했읍니다!

> 2018/08/16 정재훈 team S.C.P

목촤

- 비밀번호 찾기 (평범쓰 버전)
- 비밀번호 찾기 (고오급 버전)
- 802.11 네트워크 연결과정
- 패킷캡쳐 꿀팁
- 해본거

문제의 발단



Windows 설정

설정 찾기

Q



시스템 디스플레이, 소리, 알림, 전원



장치 Bluetooth, 프린터, 마우스



전화 Android, iPhone 연결



네트워크 및 인터넷 Wi-Fi, 비행기 모드, VPN



개인 설정 배경, 잠금 화면, 색



앱

설치 제거, 기본값, 옵션 기능



계정 내 계정, 메일, 동기화, 회사, 가 족



시간 및 언어 음성, 지역, 날짜



게임 게임 바, DVR, 브로드캐스팅, 게 임 모드



접근성 내레이터, 돋보기, 고대비



개인 정보 위치, 카메라



업데이트 및 보안 Windows 업데이트, 복구, 백업

₩ 프록시

Wi-Fi

무선 네트워크에 연결

연결할 네트워크를 찾을 수 없는 경우 사용 가능한 네트워크 표시를 선택하여 사용 가능한 네트워크 목록을 열고 원하는 네트워크를 선택하고 연결을 선택한 다음, 지침을 따르세요.

X

그래도 연결되지 않나요? 문제 해결사 열기

관련 설정

어댑터 옵션 변경

고급 공유 옵션 변경

네트워크 및 공유 센터

Windows 방화벽

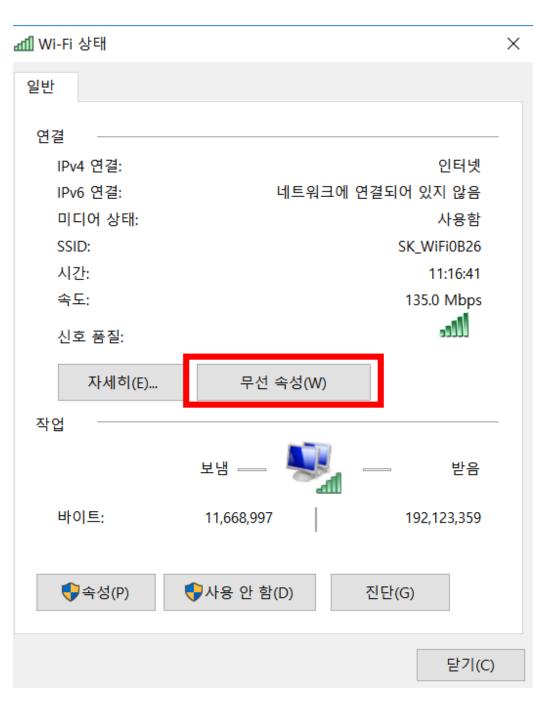
질문이 있나요?

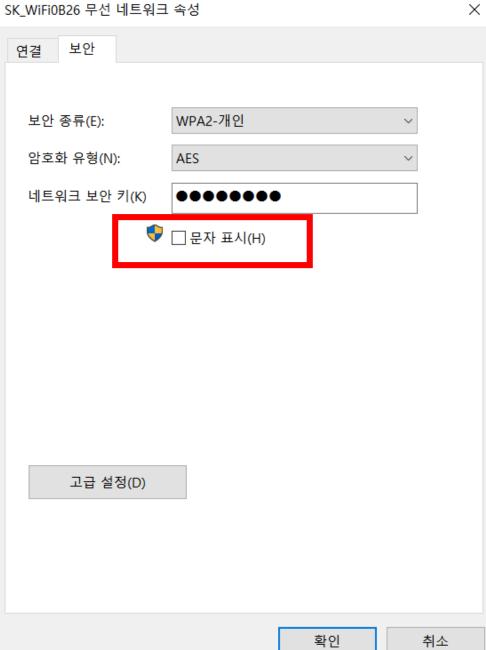
도움말 보기

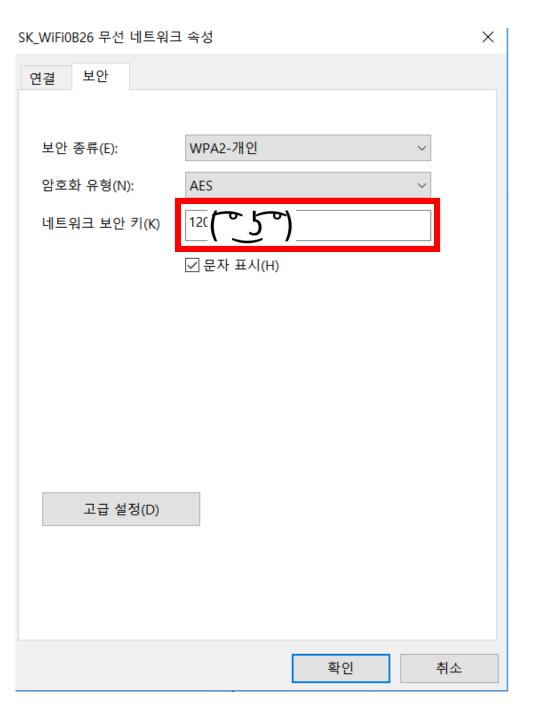


참고 항목

Windows Defender 방화벽 인터넷 옵션 인텔(R) PROSet/무선 도구 적외선







```
甅 관리자: 명령 프롬프트
  #WINDOWS#system32>netsh wlan show profiles
Wi-Fi 인터페이스의 프로필:
그룹 정책 프로필(읽기 전용)
   <없음>
나용자 프로필
                               KT_GiGA_5G_BREAD2
                             AndroidHotspot8501
FREE_U+zone
SCP_5GHz
scpCafe
                             hackingcamp-5G
HackingCamp3
hackingcamp1
hackingcamp2
                              NETGEAR90
                             POC_GUEST#2
POC_GUEST#4
```

Windows

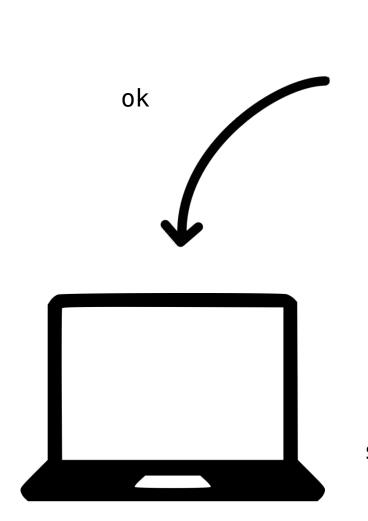
- > netsh wlan show profiles
- > netsh wlan show profile name="AP_name" key=clear

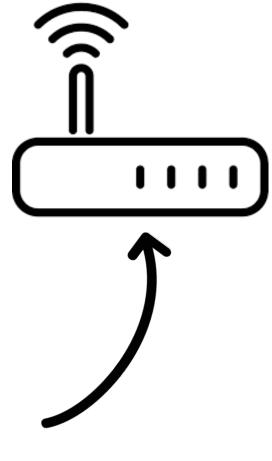
MAC

> security find-generic-password -wa AP_name

```
📆 관리자: 명령 프롬프트
                                                                                                                            \times
 ::#WINDOWS#system32>netsh wlan show profile name=91614006 key=clear
₩i-Fi 인터페이스의 91614006 프로필:
적용됨: 모든 사용자 프로필
프로필 정보
                               무선 LAN
91614006
    제어 옵션 : 연결 모드 : 자동 연결 네트워크 브로드캐스트: 이 네트워크가 브로드캐스트 중인 경우에만 연결 자동 전환 : 다른 네트워크로 전환 안 함 MAC 임의 지정 : 사용 안 함
연결 설정
   SSID 개수
SSID 이름
네트워크 종류
Radio 유형
공급업체 확장
                             : "91614006"
                             : 인프라
: [ 모든 무선 유형 ]
: 없음
보안 설정
    WPA2-개인
                           : COMP
                  : WPA2-개인
: GCMP
                       : 있음
: 01033429762
비용 설정
    비용 : 제
정체됨 : 아니의
데이터 제한에 근접: 아니요
데이터 제한 초과 : ()
                             <u>:</u> 제한 없음
                          : 아니요
                             ં: 아니요
    로밍
비용 출처
                          : 아니요
: 기본값
```





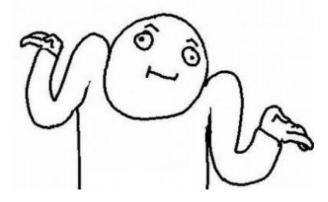


saved key & AP Name

in Linux(kali)

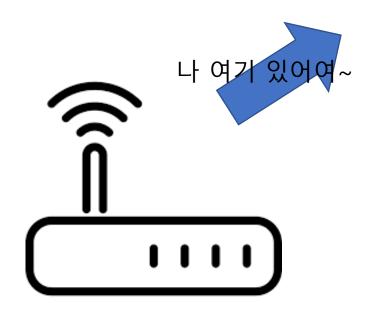
```
root@kali: /etc/NetworkManager/system-connections
 File Edit View Search Terminal Help
 oot@kali:~# cd /etc/NetworkManager/system-connections/
 oot@kali:/etc/NetworkManager/system-connections# ls
 815815 'Innovation TF'
                           kirura4
                                          TOMS NO2
 831
          iptime
                           KT Free WiFi WeVO AP
 angel
          jbccit
                           scpCafe
                                         'Wired connection 1'
 oot@kali:/etc/NetworkManager/system-connections# cat scpCafe
[connection]
id=scpCafe
uuid=b80504f1-d734-4c6f-93c6-593ce311ac24
type=wifi
permissions=
[wifi]
mac-address=D4:6E:0E:12:AF:BE
mac-address-blacklist=
mode=infrastructure
ssid=scpCafe
[wifi-security]
auth-alg=open
kev-mgmt=wpa-psk
psk=scp
[ipv4]
dns-search=
method=auto
[ipv6]
addr-gen-mode=stable-privacy
dns-search=
method=auto
 root@kali:/etc/NetworkManager/system-connections#
```

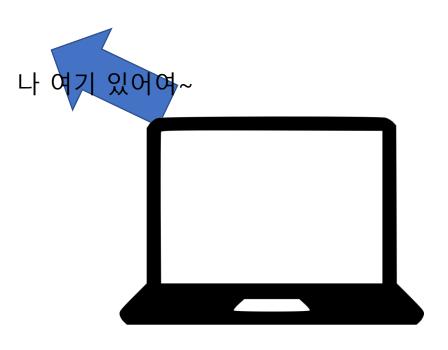
where?



saved key & AP Name

공유기와 장치가 서로 확인하는 방법 AP Station



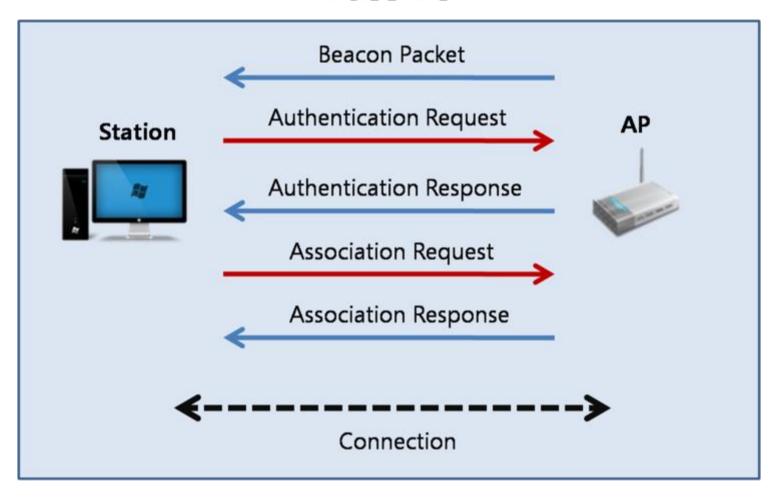


802.11 의 결합 방식



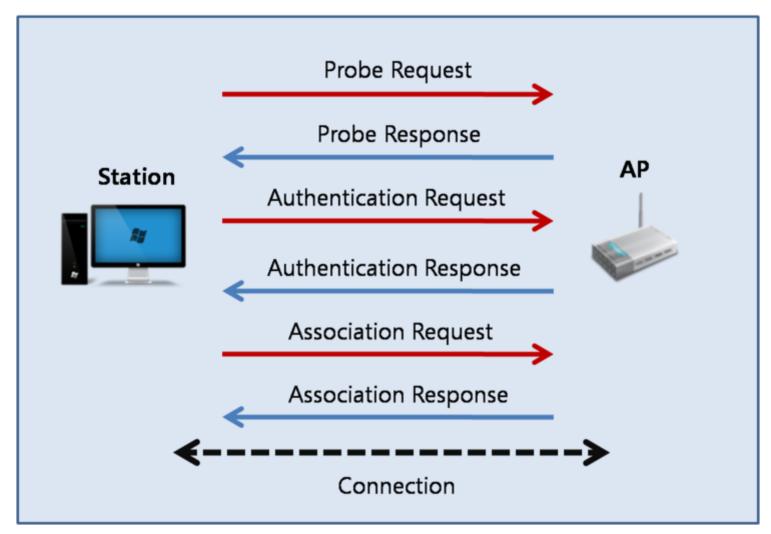
패시브

Passive



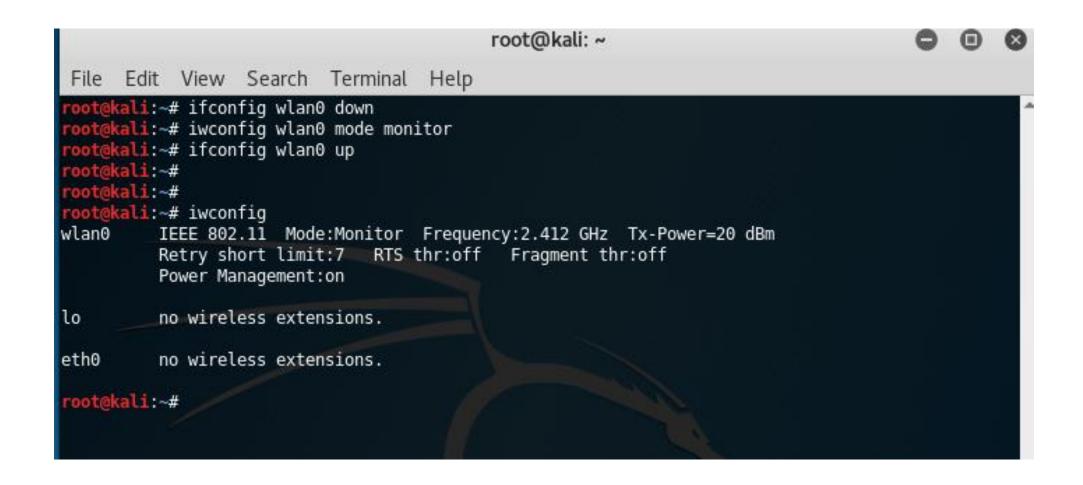
액티브

Active



패킷 캡쳐 (monitor mode)

```
root@kali:~# iwconfig
     IEEE 802.11 ESSID:off/any
wlan0
         Mode:Managed Access Point: Not-Associated Tx-Power=0 dBm
         Retry short limit:7 RTS thr:off Fragment thr:off
         Encryption key:off
         Power Management:on
         no wireless extensions.
lo
ethO no wireless extensions.
root@kali:~#
```



airodump-ng wlan0

File Edit View Search Termin CH 7][Elapsed: 0 s][2018-08 BSSID PWR Beacons 00:07:89:70:98:E9 -87 2 02:27:1C:43:ED:BC -86 2 64:E5:99:2D:61:12 -85 2 00:07:89:85:C4:D2 -85 2 00:07:89:85:C4:D2 -85 2 00:07:89:85:C4:D2 -85 2 00:07:89:28:3A:56 -84 2 00:07:89:28:3A:56 -84 2 00:07:89:28:3A:56 -84 2 00:07:89:28:3A:56 -84 2 00:08:5B:89:D0:C8 -78 2 00:08:5B:89:D0:C8 -78 2 00:08:5B:89:D0:C8 -78 2 00:08:5B:89:D0:C9 -79 3 00:08:5B:89:D0:C9 -79 3 00:08:5B:89:D0:C9 -79 3 00:08:5B:89:D0:C8 -78 2 00:27:1C:31:08:28 -69 6 6 64:E5:99:5D:E7:A0 -61 2 00:27:1C:31:08:28 -44 11 00:27:1C:7C:08:ED -85 2 00:27:1C:7C:08:ED -85 3 00:27:1C:7C:08:ED -88 3 5 E4:BE:ED:26:74:2C -87 2 00:27:1C:CA:60:75 -83 6 88:3C:1C:76:FE:B0 -82 6 6	#Data, 0 0 0 0 0 0 0 0	#/s 0 0 0 0 0 0 0	CH 6 6 5 10 10 9 9 3 3 8 2	MB 54e 54e 54e 54e 54e 54e 54e 54e 54e 54e	WPA2 WPA2 WPA2 WPA2 WPA2 WPA2 WPA2	CCMP CCMP CCMP CCMP CCMP CCMP	AUTH PSK PSK PSK PSK PSK PSK MGT PSK PSK	ESSID olleh WiFi 9BE6 <length: 7=""> PINK KT_GiGA_2G_Wave2_C4CF olleh_WiFi_A11F U+zone olleh WiFi 3A53</length:>
PWR Beacons 00:07:89:70:9B:E9 -87 2 12:27:1C:43:ED:BC -86 2 14:E5:99:2D:61:12 -85 2 18:5D:DD:47:A1:23 -66 3 10:08:5B:69:A9:4A -86 2 10:07:89:28:3A:56 -84 2 10:07:89:28:3A:56 -84 2 10:07:89:28:3A:56 -84 2 10:08:5B:0D:F2:9C:A3 -81 2 10:08:5B:89:D0:C8 -78 2 10:08:5B:89:D0:C8 -78 2 10:08:5B:89:D0:C8 -78 2 10:09:5B:89:D0:C8 -79 3 10:09:5B:89:D0:C8 -79 3 10:09:73:14:F0:F8 -85 2 12:27:1C:31:0B:28 -69 6 14:E5:99:5D:E7:A0 -61 2 10:27:1C:31:0B:28 -44 11 11:04:5D:DD:DA:10:2F -85 2 10:27:1C:7C:0B:ED -85 3 10:27:1C:7C:0B:ED -88 3 10:27:1C:7C:0B:ED -88 3 10:27:1C:7C:0B:EC -85 4 10:27:1C:7C:0B:ED -88 3 10:27:1C:7C:0B:EC -85 4 14:BE:ED:26:74:2C -87 2 10:27:1C:CA:60:75 -83 6 18:3C:1C:76:FE:B0 -82 6	#Data, 0 0 0 0 0 0 0	#/s	6 5 10 10 9 3 3	54e 54e. 54e 54e 54e 54e. 54e 54e	WPA2 WPA2 WPA2 WPA2 WPA2 WPA2 WPA2 WPA2	CCMP CCMP CCMP CCMP CCMP CCMP CCMP CCMP	PSK PSK PSK PSK PSK MGT PSK	olleh WiFi_9BE6 <length: 7=""> PINK KT_GiGA_2G_Wave2_C4CF olleh WiFi_A11F U+zone</length:>
PWR Beacons 0:07:89:70:98:E9 -87 2 2:27:1C:43:ED:BC -86 2 4:E5:99:2D:61:12 -85 2 0:07:89:85:C4:D2 -85 2 8:5D:DD:47:A1:23 -66 3 0:08:5B:69:A9:4A -86 2 0:07:89:28:3A:56 -84 2 0:07:89:28:3A:56 -84 2 0:07:89:28:3A:56 -84 2 0:08:5D:DD:F2:9C:A3 -81 2 0:08:5B:09:D0:C8 -78 2 0:08:5B:89:D0:C8 -78 2 0:08:5B:89:D0:C8 -79 3 0:08:5B:89:D0:C8 -79 3 0:09:5B:89:D0:C8 -79 3 0:09:73:14:F0:F8 -85 2 2:27:1C:31:0B:28 -69 6 4:E5:99:5D:E7:A0 -61 2 0:27:1C:31:0B:28 -44 11 0:27:1C:31:0B:28 -44 11 0:27:1C:7C:0B:ED -85 2 0:27:1C:7C:0B:ED -85 4 0:27:1C:7C:0B:ED -88 3 0:27:1C:7C:0B:ED -88 3 0:27:1C:7C:0B:EC -85 4 0:29:5B:0CD:66:21 -84 4 0:29:5B:0CD:66:21 -84 4 0:27:1C:CA:60:75 -83 6 0:27:1C:CA:60:75 -83 6 0:27:1C:CA:60:75 -83 6	#Data, 0 0 0 0 0 0 0	#/s	6 5 10 10 9 3 3	54e 54e. 54e 54e 54e 54e. 54e 54e	WPA2 WPA2 WPA2 WPA2 WPA2 WPA2 WPA2 WPA2	CCMP CCMP CCMP CCMP CCMP CCMP CCMP CCMP	PSK PSK PSK PSK PSK MGT PSK	olleh WiFi_9BE6 <length: 7=""> PINK KT_GiGA_2G_Wave2_C4CF olleh WiFi_A11F U+zone</length:>
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root@kali:~# iwconfig wlan0 channel 5

