无线网络桥接有线网络

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涉及平台

Fortigate 5.0/5.2

描述

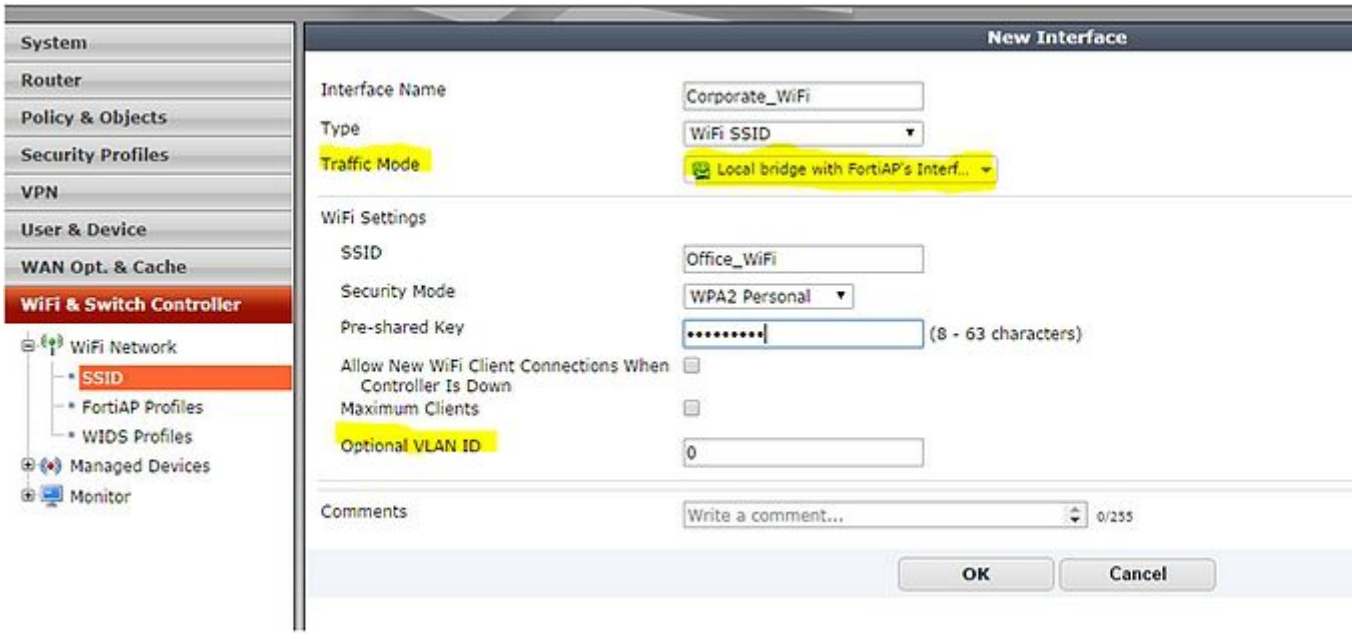
该文档将介绍如何配置 fortigate，使得无线网络桥接入已存在的有线网络

步骤

桥接无线网络和有线网络需先创建 SSID，使得流量经由 FORTIAP 的接口至 FORTIGATE 防火墙，从而取代无线控制器

1.) 按需进入以下目录 WiFi Controller > WiFi Network > SSID 点击 创建新的.

2.) 使用以下流量模式“Local bridge with FortiAP’s Interface”, 配置 SSID.



3.) 进入以下目录 WiFi Controller > FortiAP profiles > 修改 FortiAP profile 并应用至对应的 SSID 下

a

同时可在 cli 界面下使用以下命令配置.

该例子为穿件了一个“Corporate_WiFi”，SSID 为“Office_WiFi”使用 WPA 加密，密钥为“Fortinet1”.

```
config wireless-controller vap
edit Corporate_WiFi
set vdom "root"
set ssid "Office_WiFi"
set local-bridging enable
set passphrase Fortinet1
end

config wireless-controller wtp-profile
edit FAP221C-default
config radio-1
set vaps Corporate_WiFi
end
config radio-2
set vaps Corporate_WiFi
end
end
```

在网络中使用 MAC 地址过滤会比使用 IP 地址过滤更安全和可靠，因为 MAC 不会改变。

在无线环境中我们可以使用配置 access list 来禁止指定客户端的接入。

Step 1) 定义指定 mac 地址对象：

```
config user device
edit mac-1
set mac 11:11:11:11:11:11 {---the MAC address you need filter
next
end
```

Step 2) 配置 devices access list:

```
config user device-access-list
edit Black-list
set default-action accept {---- This is set to allow all except the one in the list
config device-list
edit 1
set device "mac-1"
set action deny
next
end
next
end
```

Step 3) 在开启了 wireless 的接口下调用 access list:

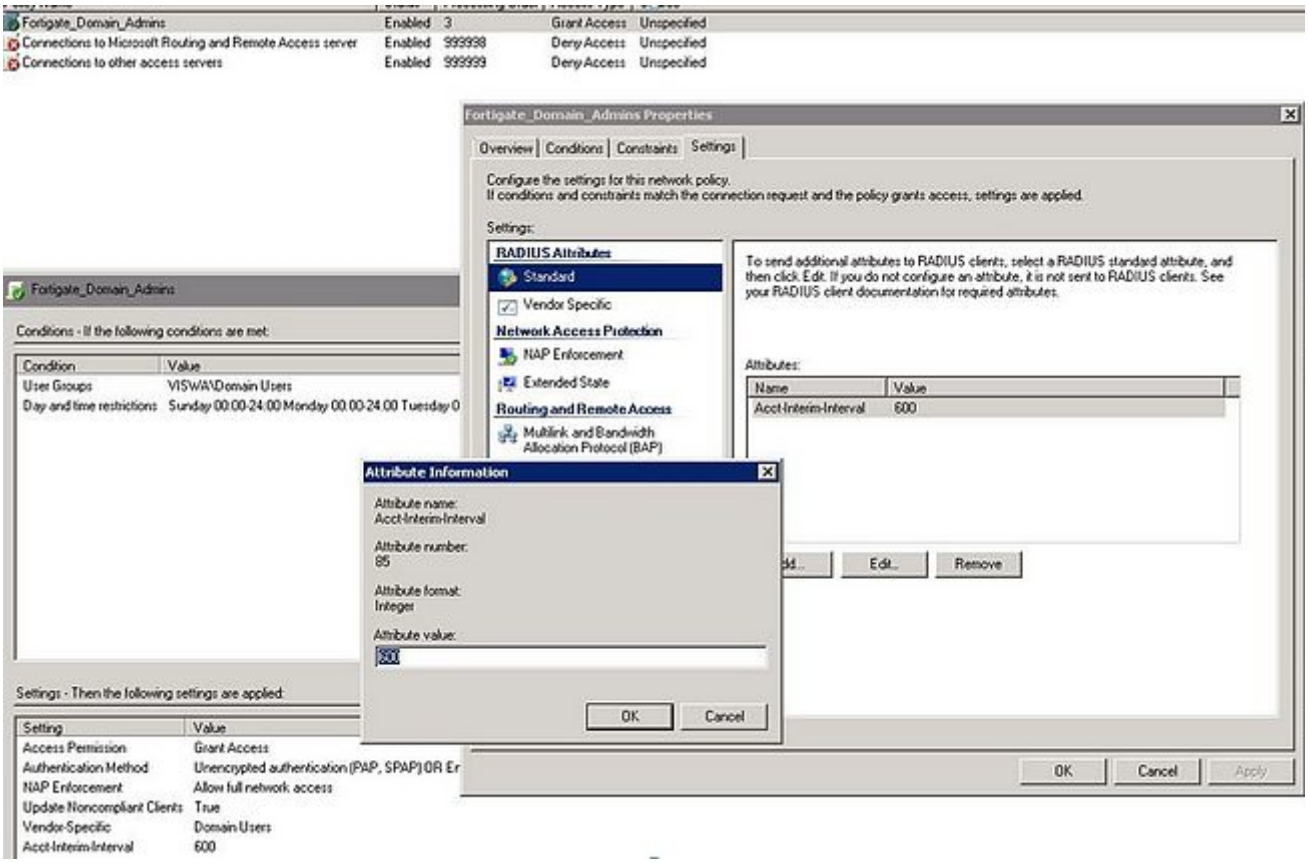
```
config system interface
edit [name]
set device-identification enable
set device-access-list Black-list
next
end
```

在 fortigate 防火墙上开启相关功能

config user radius
edit [name]
config accounting-server
edit 1
set status enable
set server [IP]
set secret [secret]
end
set acct-interim-interval [duration] duration between each interim update[600 to 86400 seconds]
end

注意：radius server 需开启以下参数“Acct-Interim-Interval=xxx” (seconds)

Example configuration on Windows NPS server:




```
     2 0.059067      0.059067 192.168.1.26   192.168.1.20    RADIUS   283 Access-Accept(2) (id=4, l=241)
     3 0.061263      0.002196 192.168.1.20   192.168.1.26    RADIUS   183 Accounting-Request(4) (id=5, l=141)
     4 0.061594      0.000331 192.168.1.26   192.168.1.20    RADIUS    62 Accounting-Response(5) (id=5, l=20)
     5 605.600827  605.539233 192.168.1.20   192.168.1.26    RADIUS   201 Accounting-Request(4) (id=6, l=159)
     6 605.601794    0.000967 192.168.1.26   192.168.1.20    RADIUS    62 Accounting-Response(5) (id=6, l=20)
```

```
⊞ Frame 2: 283 bytes on wire (2264 bits), 283 bytes captured (2264 bits)
⊞ Ethernet II, Src: Vmware_8e:17:5e (00:0c:29:8e:17:5e), Dst: Vmware_1e:8a:e8 (00:0c:29:1e:8a:e8)
⊞ Internet Protocol Version 4, Src: 192.168.1.26 (192.168.1.26), Dst: 192.168.1.20 (192.168.1.20)
⊞ User Datagram Protocol, Src Port: radius (1812), Dst Port: solid-mux (1029)
⊟ Radius Protocol
    Code: Access-Accept (2)
    Packet identifier: 0x4 (4)
    Length: 241
    Authenticator: 429a88f23bbc205f658ddb1200c3c3b8
    [This is a response to a request in frame 1]
    [Time from request: 0.059067000 seconds]
  ⊟ Attribute Value Pairs
    ⊟ AVP: l=6  t=Acct-Interim-Interval(85): 600
        Acct-Interim-Interval: 600
    ⊞ AVP: l=28 t=Vendor-Specific(26) v=Fortinet, Inc.(12356)
```