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Introducción

Esto documenta describe cómo configurar los reguladores del Wireless LAN de las 5508/5760 Series (WLCs) y el Catalyst 3850 Series Switch para el ancla del invitado del cliente de red inalámbrica en el nuevo despliegue de la movilidad puso donde el WLC de las 5508 Series actúa como el ancla de la movilidad y el Catalyst 3850 Series Switch actúa como regulador no nativo de la movilidad para los clientes. Además, el Catalyst 3850 Series Switch actúa como agente de la movilidad a un WLC de las 5760 Series que actúe como regulador de la movilidad de donde el Catalyst 3850 Series Switch adquiere la licencia del punto de acceso.

Prerrequisitos

Requisitos

Cisco recomienda que usted tiene conocimiento de estos temas antes de que usted intente esta configuración:

- [®] GUI o CLI del Cisco IOS con el WLCs convergido de las 5760 y 3650 Series del acceso y el Catalyst 3850 Series Switch
- Acceso GUI y CLI con el WLC de las 5508 Series
- Configuración del Service Set Identifier (SSID)
- Autenticación Web

Componentes Utilizados

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Versión 3.3.3 ([NGWC] de Cisco 5760 del Wiring Closet de la última generación)
- Catalyst 3850 Series Switch
- Versión 7.6.120 del WLC de las Cisco 5508 Series
- Cisco 3602 Series AP ligeros
- Cisco Catalyst 3560 Series Switches

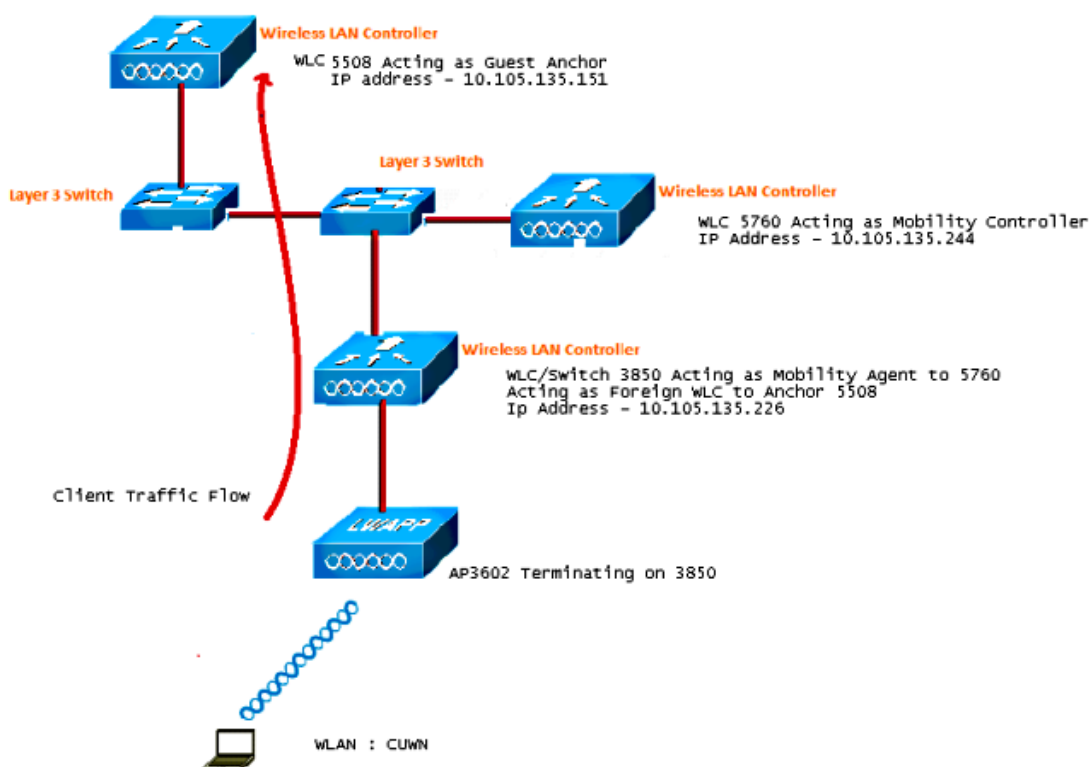
La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

Configurar

Nota: Use la [Command Lookup Tool](#) ([clientes registrados solamente](#)) para obtener más información sobre los comandos usados en esta sección.

Diagrama de la red

El WLC de las 5508 Series actúa como regulador del ancla, y el Catalyst 3850 Series Switch actúa como un regulador no nativo y el agente de la movilidad que obtiene la licencia del regulador 5760 de la movilidad.



Nota: En el diagrama de la red, el WLC de las 5508 Series actúa como el regulador del

ancla, el WLC de las 5760 Series actúa como el regulador de la movilidad, y el Catalyst 3850 Series Switch actúa como el agente de la movilidad y el WLC no nativo. En cualquier momento, el regulador del ancla para el Catalyst 3850 Series Switch es el WLC de las 5760 Series o el WLC de las 5508 Series. Ambas no pueden ser anclas al mismo tiempo, porque el ancla doble no funciona.

Configuraciones

La configuración incluye tres porciones:

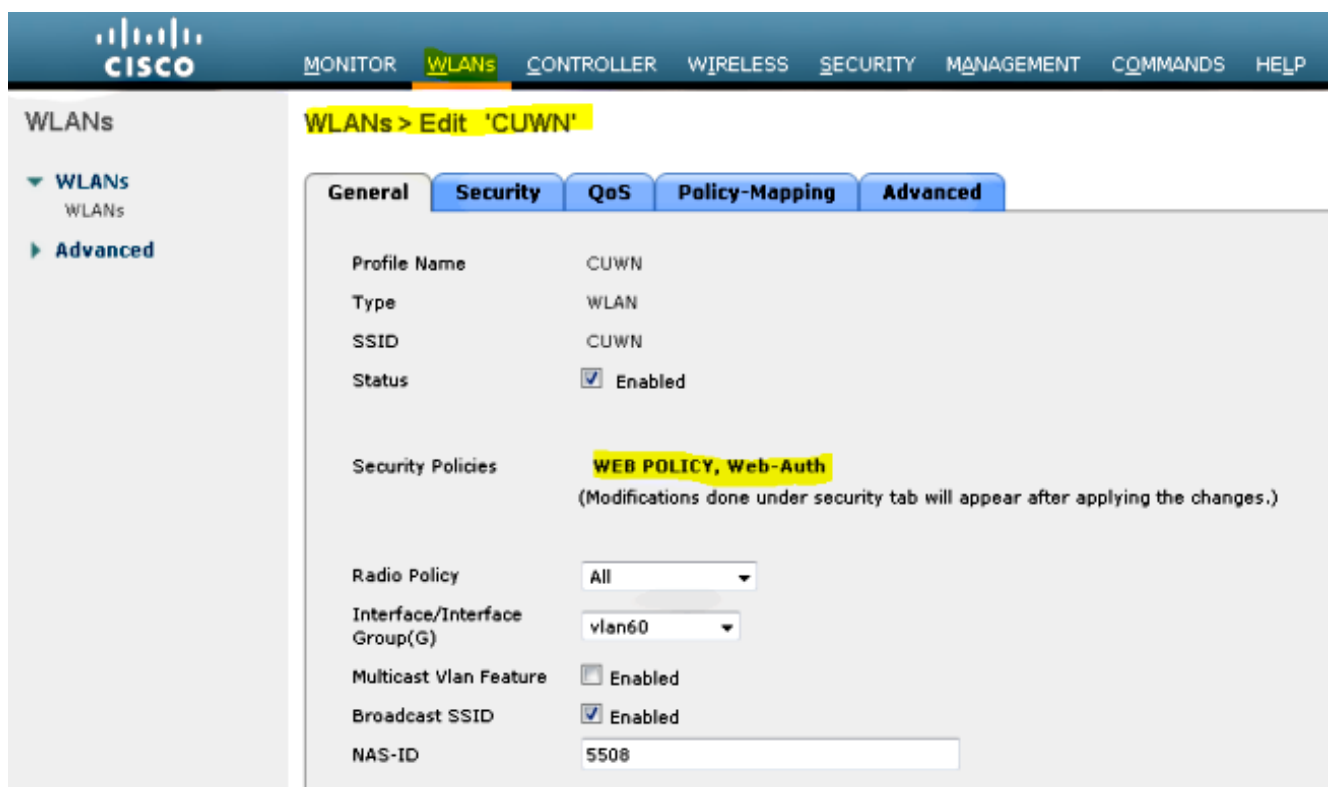
[Parte 1 - Configuración en los 5508 WLC del ancla](#)

[Parte 2 - Configuración convergida de la movilidad del acceso entre el WLC de las 5508/5760 Series y el Catalyst 3850 Series Switch](#)

[Parte 3 - Configuración en el Catalyst 3850 Series Switch no nativo](#)

Parte 1 - Configuración en los 5508 WLC del ancla

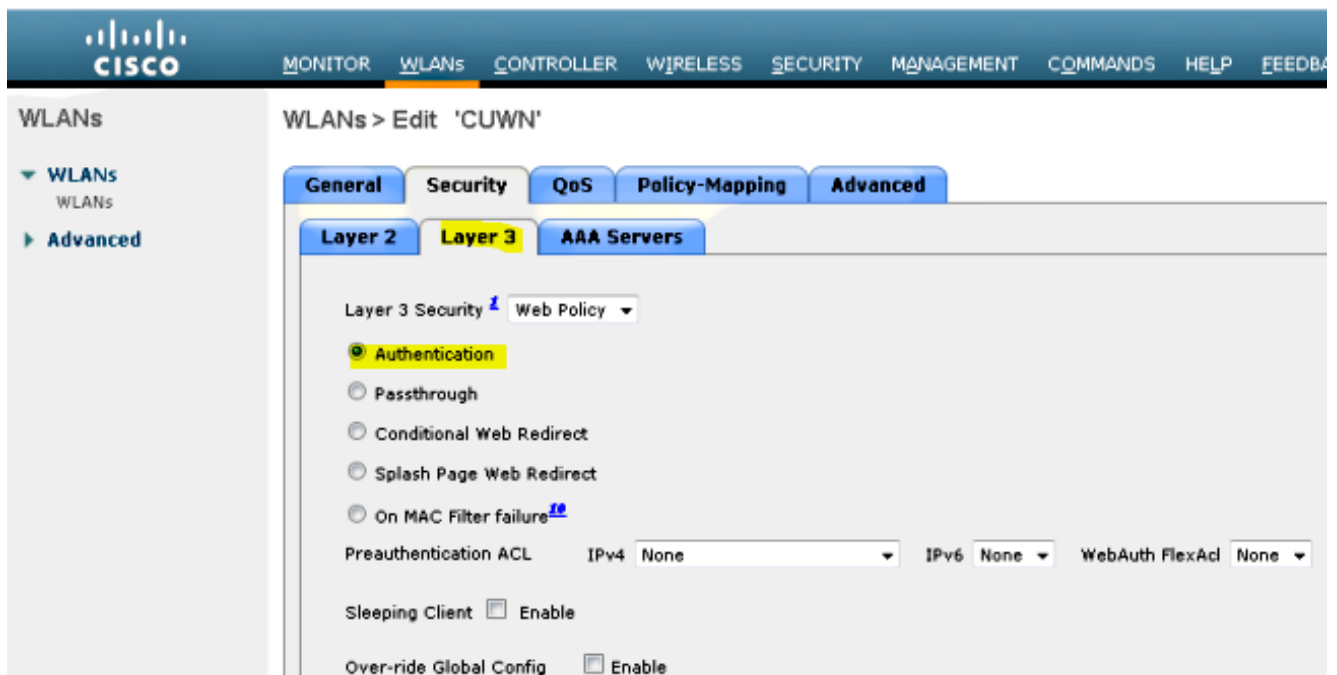
1. En el WLC de las 5508 Series, libración sobre la **red inalámbrica (WLAN) > nuevo** para crear un nuevo Wireless LAN (red inalámbrica (WLAN)).



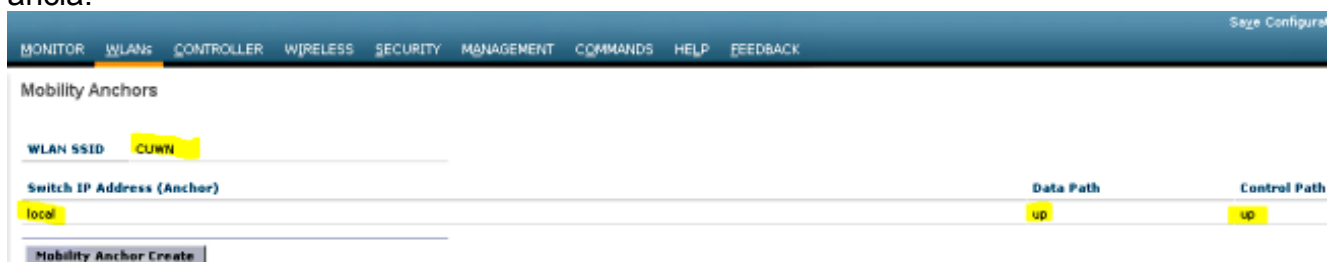
The screenshot shows the Cisco WLC configuration interface. The top navigation bar includes 'MONITOR', 'WLANs', 'CONTROLLER', 'WIRELESS', 'SECURITY', 'MANAGEMENT', 'COMMANDS', and 'HELP'. The left sidebar shows 'WLANs' with sub-items 'WLANs' and 'Advanced'. The main content area is titled 'WLANs > Edit: 'CUWN''. Below this, there are tabs for 'General', 'Security', 'QoS', 'Policy-Mapping', and 'Advanced'. The 'Security' tab is selected, showing the following configuration:

Profile Name	CUWN
Type	WLAN
SSID	CUWN
Status	<input checked="" type="checkbox"/> Enabled
Security Policies	WEB POLICY, Web-Auth (Modifications done under security tab will appear after applying the changes.)
Radio Policy	All
Interface/Interface Group(G)	vlan60
Multicast Vlan Feature	<input type="checkbox"/> Enabled
Broadcast SSID	<input checked="" type="checkbox"/> Enabled
NAS-ID	5508

2. La libración sobre la **red inalámbrica (WLAN) > la red inalámbrica (WLAN) edita el > Security (Seguridad) > la autenticación Web habilitada de la capa 3** para configurar la Seguridad de la capa 3.

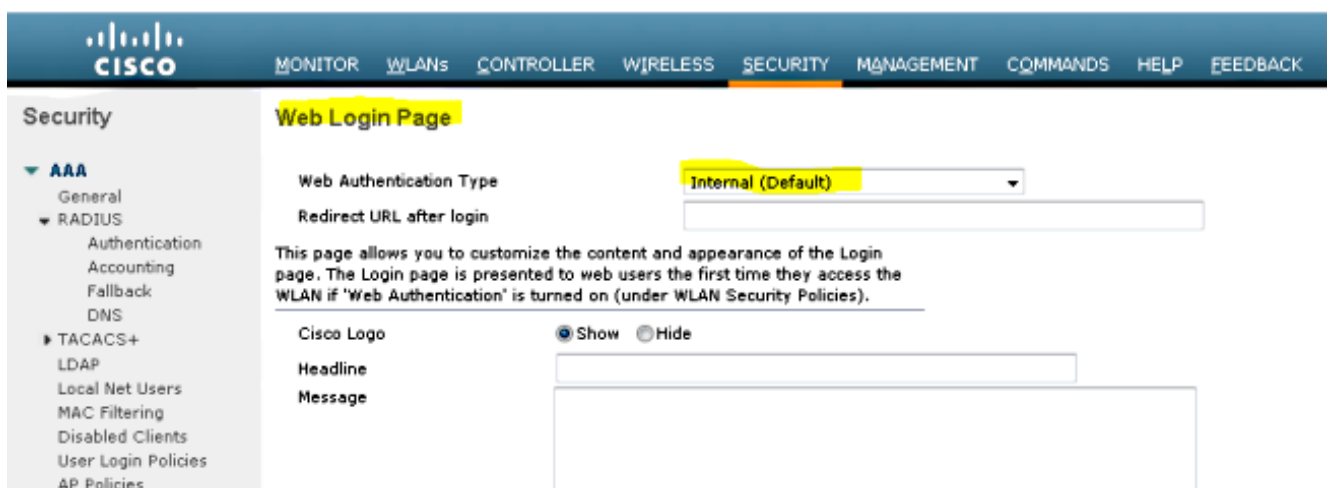


3. Haga el direccionamiento del ancla **local** bajo la ventana de configuración del ancla de la movilidad de la red inalámbrica (WLAN) para agregar el WLC de las 5508 Series como el ancla.

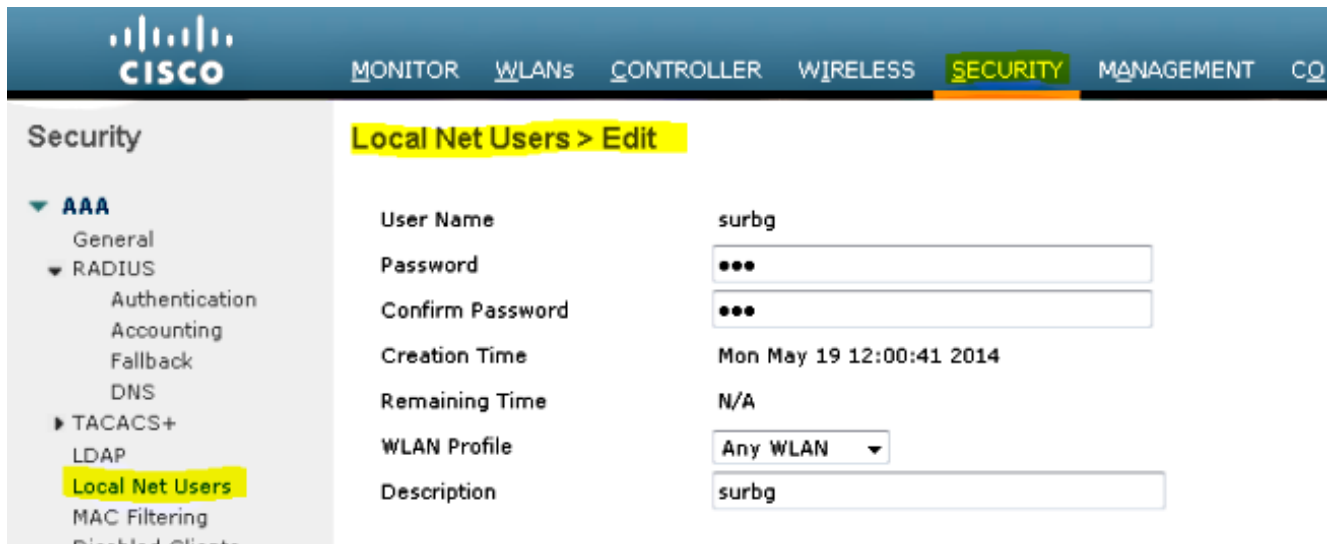


4. Asume sobre la **página de la Seguridad > de Webauth > de Webauth** para configurar la página de Webauth que se utilizará para la autenticación de cliente.

En este ejemplo, se selecciona la página interna de Webauth del WLC:

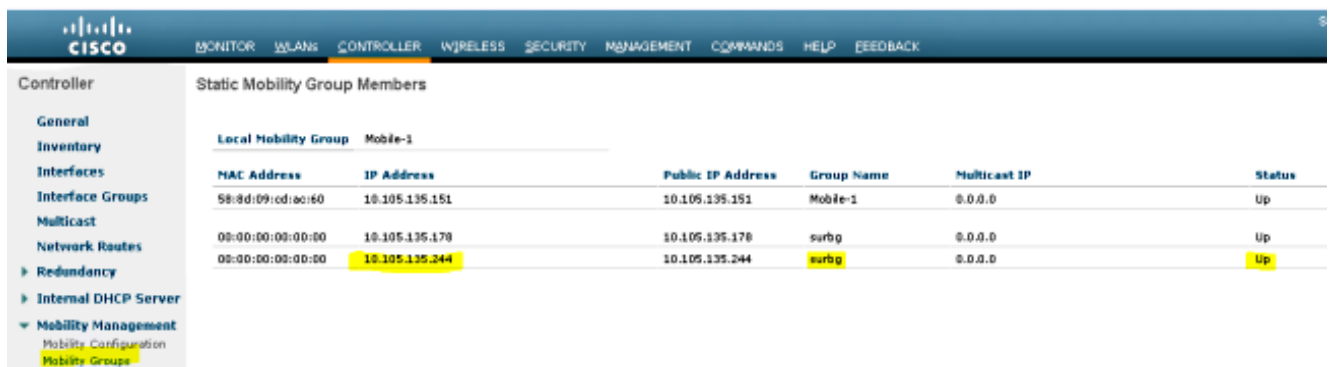


5. Cree a un usuario de red local. Este par de nombre de usuario/contraseña es utilizado por el usuario cuando está indicado en la página de Webauth.

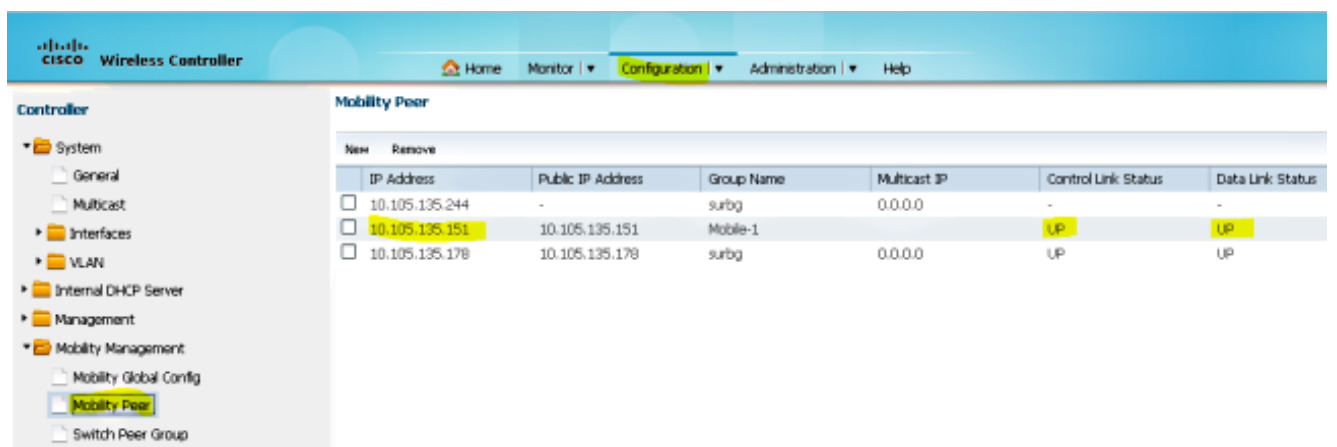


Parte 2 - Configuración convergida de la movilidad del acceso entre el WLC de las 5508/5760 Series y el Catalyst 3850 Series Switch

1. En el WLC de las 5508 Series, agregue el WLC de las 5760 Series como el par de la movilidad.

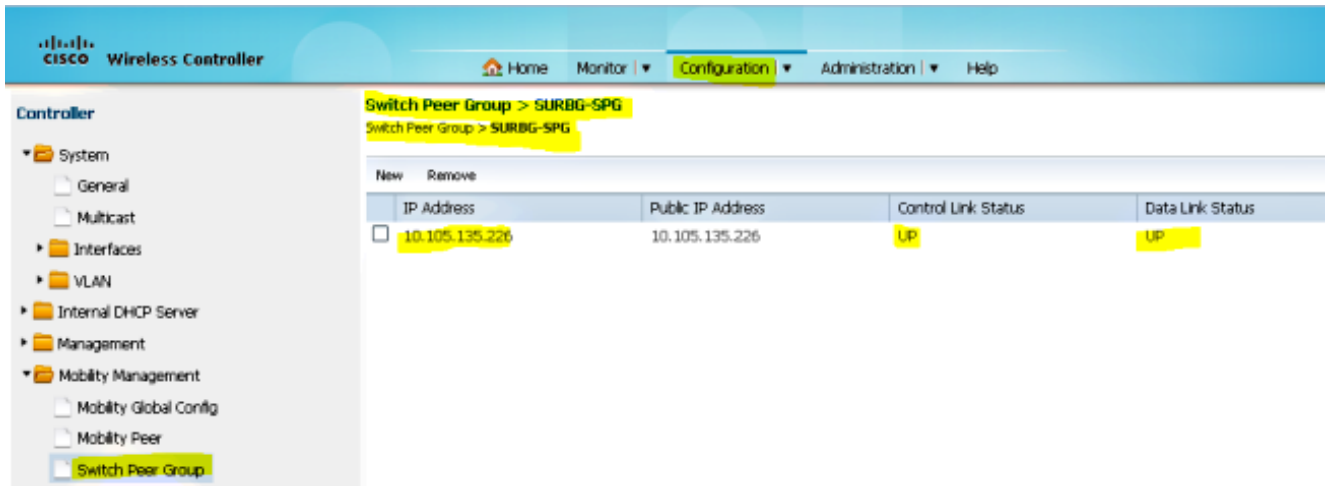


2. En el WLC de las 5760 Series, actuando como regulador de la movilidad, agregue el WLC de las 5508 Series como el par de la movilidad.

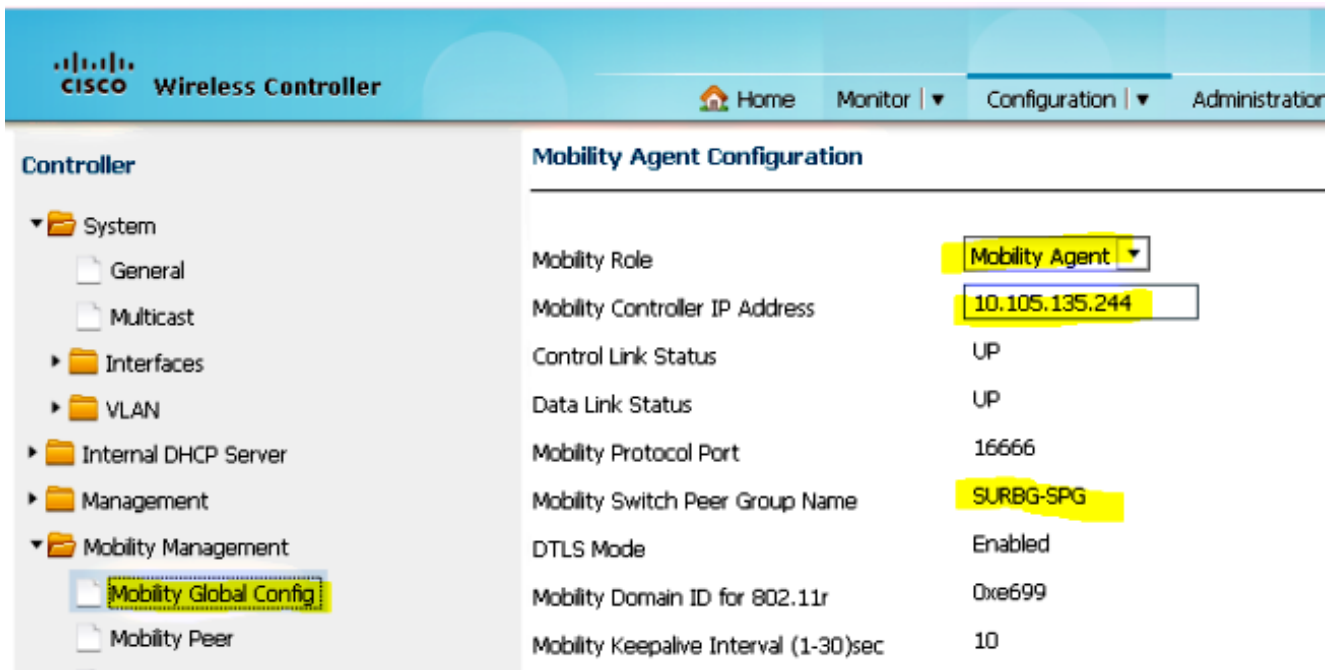


3. ¡Este paso es muy importante! Agregue el Catalyst 3850 Series Switch como el agente de la movilidad en el WLC de las 5760 Series bajo lenguaeta del grupo de peer del Switch bajo

Administración de movilidad.



4. En el Catalyst 3850 Series Switch, agregue el WLC de las 5760 Series como el regulador de la movilidad. Una vez que usted hace esto, el Catalyst 3850 Series Switch ase la licencia del coult AP del regulador 5760 de la movilidad.

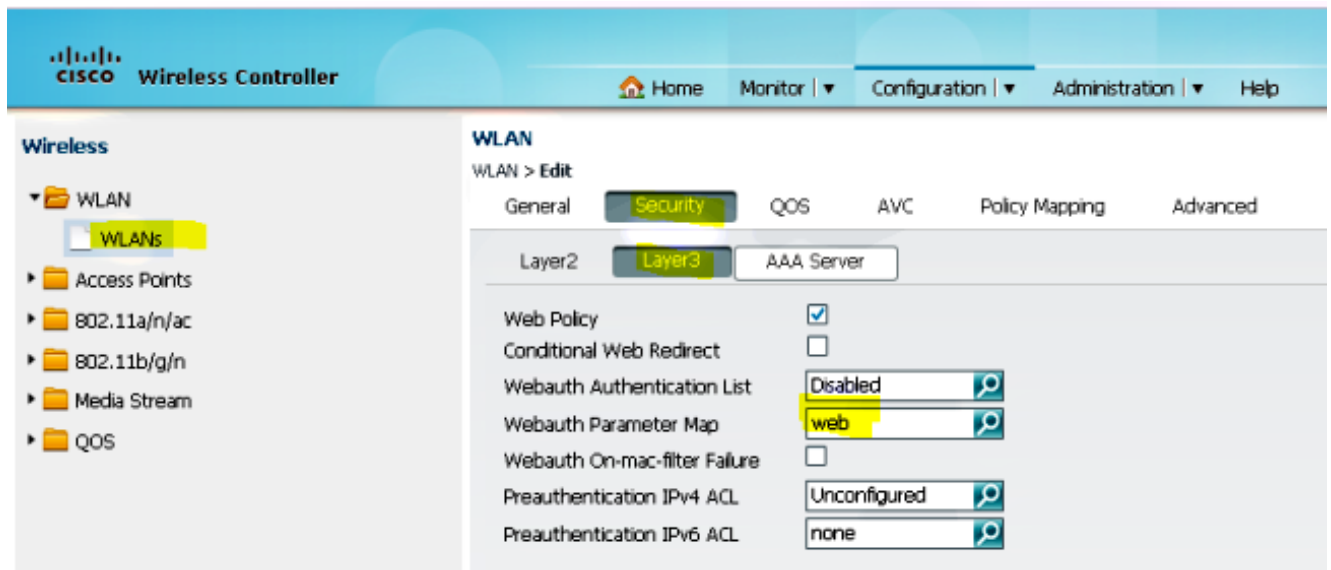


Parte 3: Configuración en el Catalyst 3850 Series Switch no nativo

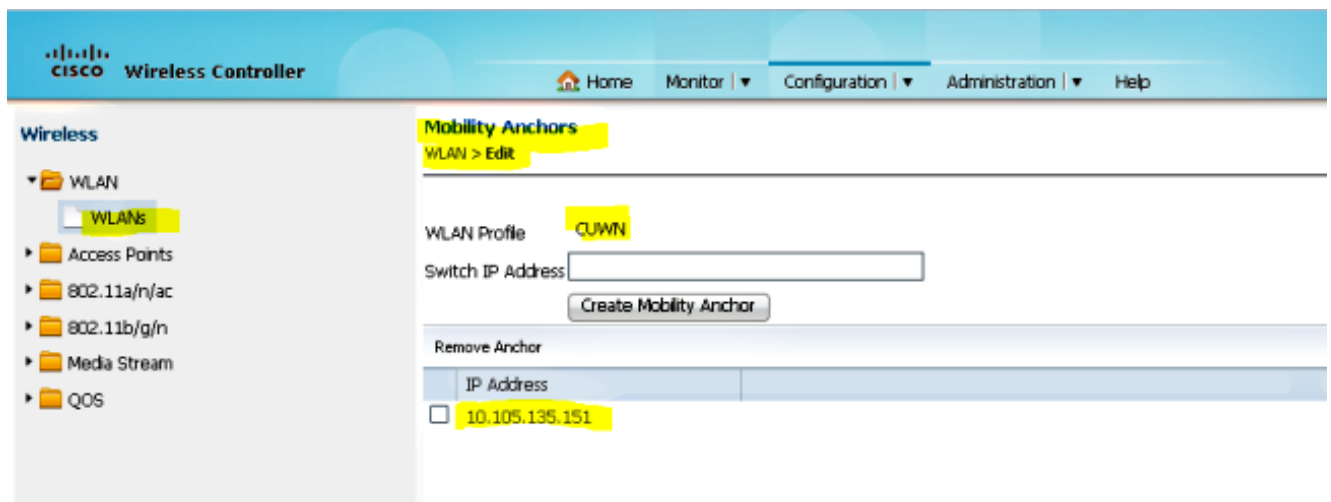
1. Libración sobre GUI > configuración > Tecnología inalámbrica > red inalámbrica (WLAN) > nuevo para configurar el SSID/WLAN exacto en el Catalyst 3850 Series Switch.



2. La librería sobre la red inalámbrica (WLAN) > la red inalámbrica (WLAN) edita el > Security (Seguridad) > la autenticación Web habilitada de la capa 3 para configurar la Seguridad de la capa 3.



3. Agregue la dirección IP del WLC de las 5508 Series como el ancla bajo configuración del ancla de la movilidad de la red inalámbrica (WLAN)



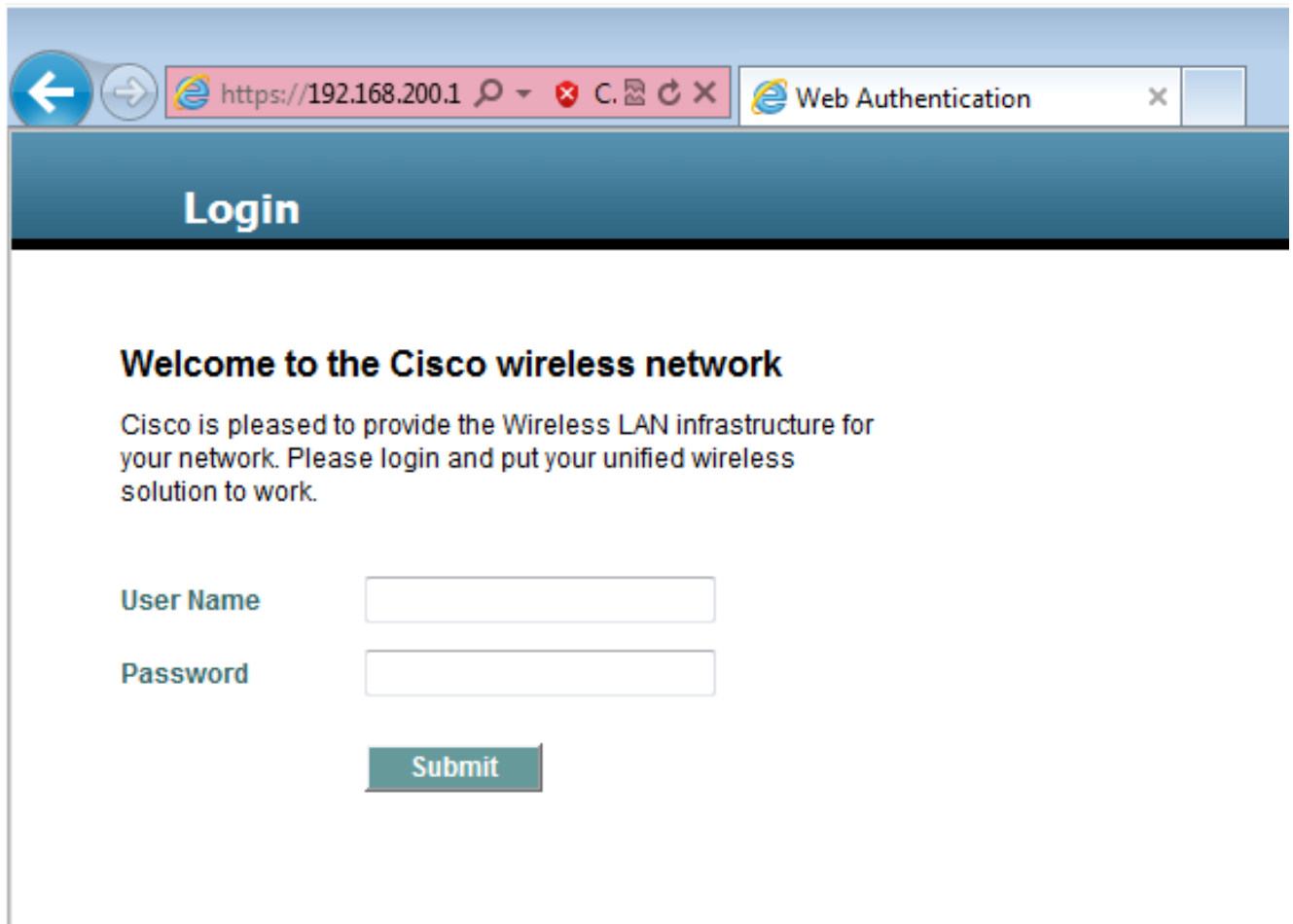
Verificación

Utilice esta sección para confirmar que su configuración funcione correctamente.

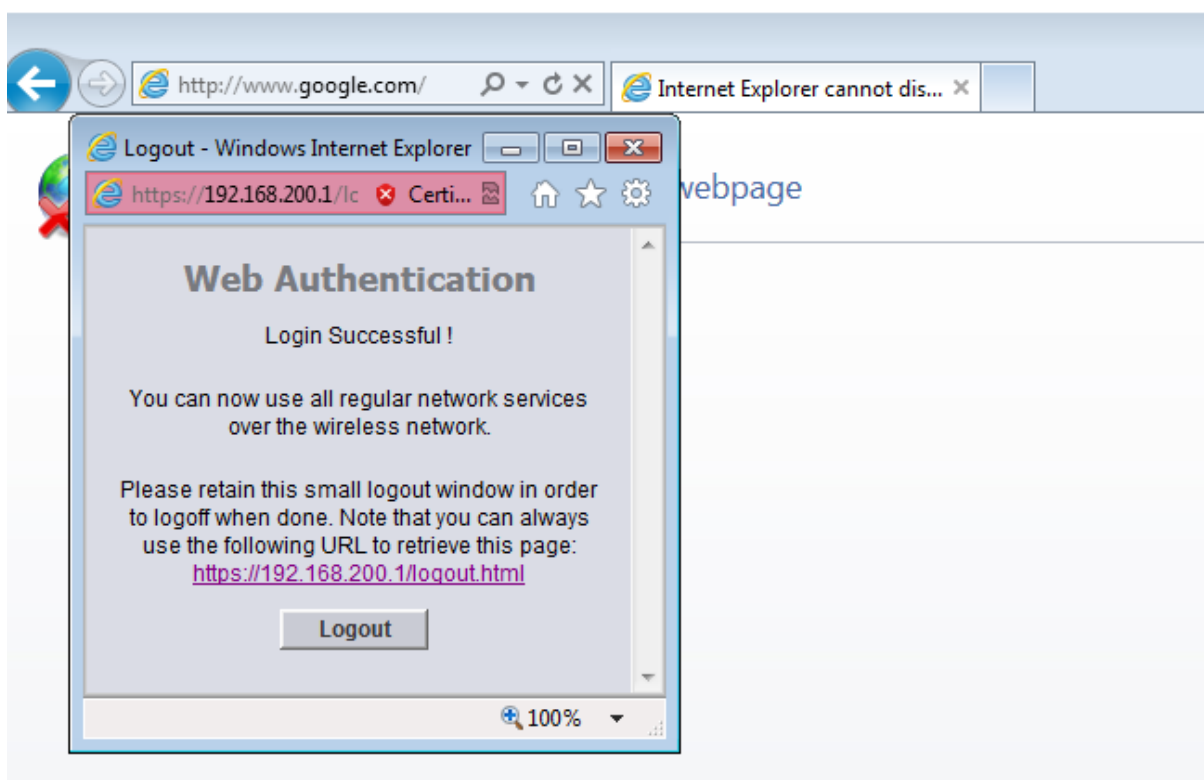
Conecte al cliente con la red del Cisco Unified Wireless de la red inalámbrica (WLAN) (CUWN). Aquí está el flujo de trabajo:

1. El cliente recibe una dirección IP.
2. El cliente abre a un navegador y accede cualquier sitio web.
3. El primer paquete TCP enviado por el cliente es secuestrado por el WLC, y el WLC intercepta y envía la página de Webauth.

4. Si el DNS se configura correctamente, el cliente consigue la página de Webauth.
5. El cliente debe proporcionar el nombre de usuario/la contraseña para conseguir autenticado.
6. Después de la autenticación satisfactoria, reorientan al cliente a la página original del acceso.



7. Después de que el cliente proporcione las credenciales correctas, el cliente pasa el auth.



Troubleshooting

Para resolver problemas su configuración, ingrese estos debugs en el WLC de las 5508 Series, que actúa como ancla del invitado:

```
Debug Client <client mac addr>  
Debug web-auth redirect enable mac <client mac addr>
```

Aquí tiene un ejemplo:

```
Debug Client 00:17:7C:2F:B6:9A  
Debug web-auth redirect enable mac 00:17:7C:2F:B6:9A
```

```
show debug
```

```
MAC Addr 1..... 00:17:7C:2F:B6:9A
```

```
Debug Flags Enabled:  
  dhcp packet enabled.  
  dot11 mobile enabled.  
  dot11 state enabled  
  dot1x events enabled.  
  dot1x states enabled.  
  FlexConnect ft enabled.  
  pem events enabled.  
  pem state enabled.  
  CCKM client debug enabled.  
  webauth redirect enabled.
```

```
*mmMaListen: May 19 13:36:34.276: 00:17:7c:2f:b6:9a Adding mobile on Remote AP  
00:00:00:00:00(0)
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a override for default ap group,  
marking intgrp NULL
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a Applying Interface policy on  
Mobile, role Unassociated. Ms NAC State 2 Quarantine Vlan 0 Access Vlan 0
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a Re-applying interface policy  
for client
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a 0.0.0.0 START (0) Changing IPv4  
ACL 'none' (ACL ID 255) ==> 'none' (ACL ID 255) --- (caller apf_policy.c:2219)
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a 0.0.0.0 START (0) Changing IPv6  
ACL 'none' (ACL ID 255) ==> 'none' (ACL ID 255) --- (caller apf_policy.c:2240)
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a apfApplyWlanPolicy: Apply WLAN  
Policy over PMIPv6 Client Mobility Type
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a override from intf group to an  
intf for roamed client - removing intf group from mscb
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a 0.0.0.0 AUTHCHECK (2) Change  
state to L2AUTHCOMPLETE (4) last state AUTHCHECK (2)
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a 0.0.0.0 L2AUTHCOMPLETE (4)  
Change state to DHCP_REQD (7) last state L2AUTHCOMPLETE (4)
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a Resetting web IPv4 acl from  
255 to 255
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a Resetting web IPv4 Flex acl  
from 65535 to 65535
```

```
*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a Stopping deletion of Mobile
```

Station: (callerId: 53)

*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7) Adding

Fast Path rule type = Airespace AP - Learn IP address

on AP 00:00:00:00:00:00, slot 0, interface = 1, QOS = 0

IPv4 ACL ID = 255, IPv

*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7) Fast Path

rule (contd...) 802.1P = 0, DSCP = 0, TokenID = 15206 Local Bridging Vlan = 60,

Local Bridging intf id = 13

*mmMaListen: May 19 13:36:34.277: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7)

Successfully plumbed mobile rule (IPv4 ACL ID 255, IPv6 ACL ID 255, L2 ACL ID 255)

*mmMaListen: May 19 13:36:34.278: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7) State

Update from Mobility-Incomplete to Mobility-Complete, mobility role=ExpAnchor,

client state=APF_MS_STATE_ASSOCIATED

*mmMaListen: May 19 13:36:34.278: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7)

Change state to DHCP_REQD (7) last state DHCP_REQD (7)

*mmMaListen: May 19 13:36:34.278: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7)

pemAdvanceState2 5807, Adding TMP rule

*mmMaListen: May 19 13:36:34.278: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7)

Replacing Fast Path rule

type = Airespace AP - Learn IP address

on AP 00:00:00:00:00:00, slot 0, interface = 1, QOS = 0

IPv4 ACL ID = 255,

*mmMaListen: May 19 13:36:34.278: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7)

Fast Path rule (contd...) 802.1P = 0, DSCP = 0, TokenID = 15206 Local

Bridging Vlan = 60, Local Bridging intf id = 13

*mmMaListen: May 19 13:36:34.278: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7)

Successfully plumbed mobile rule (IPv4 ACL ID 255, IPv6 ACL ID 255, L2 ACL ID 255)

*pemReceiveTask: May 19 13:36:34.278: 00:17:7c:2f:b6:9a Set bi-dir guest tunnel

for 00:17:7c:2f:b6:9a as in Export Anchor role

*pemReceiveTask: May 19 13:36:34.278: 00:17:7c:2f:b6:9a 0.0.0.0 Added NPU entry

of type 9, dtlFlags 0x4

*pemReceiveTask: May 19 13:36:34.278: 00:17:7c:2f:b6:9a Sent an XID frame

*pemReceiveTask: May 19 13:36:34.278: 00:17:7c:2f:b6:9a Set bi-dir guest tunnel

for 00:17:7c:2f:b6:9a as in Export Anchor role

*pemReceiveTask: May 19 13:36:34.278: 00:17:7c:2f:b6:9a 0.0.0.0 Added NPU entry

of type 9, dtlFlags 0x4

*IPv6_Msg_Task: May 19 13:36:34.281: 00:17:7c:2f:b6:9a Pushing IPv6 Vlan Intf

ID 13: fe80:0000:0000:0000:6c1a:b253:d711:0c7f , and MAC: 00:17:7C:2F:B6:9A ,

Binding to Data Plane. SUCCESS !! dhcpv6bitmap 0

*IPv6_Msg_Task: May 19 13:36:34.281: 00:17:7c:2f:b6:9a Calling mmSendIpv6AddrUpdate

for addition of IPv6: fe80:0000:0000:0000:6c1a:b253:d711:0c7f , for MAC:

00:17:7C:2F:B6:9A

*IPv6_Msg_Task: May 19 13:36:34.281: 00:17:7c:2f:b6:9a mmSendIpv6AddrUpdate:4800

Assigning an IPv6 Addr fe80:0000:0000:0000:6c1a:b253:d711:0c7f to the client in

Anchor state update the foreign switch 10.105.135.226

*IPv6_Msg_Task: May 19 13:36:34.281: 00:17:7c:2f:b6:9a Link Local address fe80::

6c1a:b253:d711:c7f updated to mscb. Not Advancing pem state.Current state: mscb

in apfMsMmInitial mobility state and client state APF_MS_STATE_AS

*mmMaListen: May 19 13:36:34.298: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7)

Replacing Fast Path rule

type = Airespace AP - Learn IP address

on AP 00:00:00:00:00:00, slot 0, interface = 1, QOS = 0

IPv4 ACL ID = 255,

*mmMaListen: May 19 13:36:34.298: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7)

Fast Path rule (contd...) 802.1P = 0, DSCP = 0, TokenID = 15206 Local Bridging

Vlan = 60, Local Bridging intf id = 13

*mmMaListen: May 19 13:36:34.298: 00:17:7c:2f:b6:9a 0.0.0.0 DHCP_REQD (7)

Successfully plumbed mobile rule (IPv4 ACL ID 255, IPv6 ACL ID 255, L2 ACL ID 255)

*pemReceiveTask: May 19 13:36:34.298: 00:17:7c:2f:b6:9a Set bi-dir guest tunnel for
00:17:7c:2f:b6:9a as in Export Anchor role

*pemReceiveTask: May 19 13:36:34.298: 00:17:7c:2f:b6:9a 0.0.0.0 Added NPU entry of
type 9, dtlFlags 0x4

*dtlArpTask: May 19 13:36:34.564: 00:17:7c:2f:b6:9a Static IP client associated to

interface vlan60 which can support client subnet.

***dtlArpTask: May 19 13:36:34.564: 00:17:7c:2f:b6:9a 60.60.60.11 DHCP_REQD (7)**

Change state to WEBAUTH_REQD (8) last state DHCP_REQD (7)

*dtlArpTask: May 19 13:36:34.564: 00:17:7c:2f:b6:9a 60.60.60.11 WEBAUTH_REQD (8)

pemAdvanceState2 6717, Adding TMP rule

*dtlArpTask: May 19 13:36:34.564: 00:17:7c:2f:b6:9a 60.60.60.11 WEBAUTH_REQD (8)

Replacing Fast Path rule

type = Airespace AP Client - ACL passthru

on AP 00:00:00:00:00:00, slot 0, interface = 1, QOS = 0

IPv4 ACL

*dtlArpTask: May 19 13:36:34.564: 00:17:7c:2f:b6:9a 60.60.60.11 WEBAUTH_REQD (8)

Fast Path rule (contd...) 802.1P = 0, DSCP = 0, TokenID = 15206 Local Bridging

Vlan = 60, Local Bridging intf id = 13

***dtlArpTask: May 19 13:36:34.564: 00:17:7c:2f:b6:9a 60.60.60.11 WEBAUTH_REQD (8)**

Successfully plumbed mobile rule (IPv4 ACL ID 255, IPv6 ACL ID 255, L2 ACL ID 255)

*dtlArpTask: May 19 13:36:34.564: 00:17:7c:2f:b6:9a Plumbing web-auth redirect rule

due to user logout

*dtlArpTask: May 19 13:36:34.564: 00:17:7c:2f:b6:9a apfAssignMscbIpAddr:1148

Assigning an Ip Addr 60.60.60.11 to the client in Anchor state update the foreign

switch 10.105.135.226

*dtlArpTask: May 19 13:36:34.565: 00:17:7c:2f:b6:9a Assigning Address 60.60.60.11

to mobile

*pemReceiveTask: May 19 13:36:34.565: 00:17:7c:2f:b6:9a Set bi-dir guest tunnel for

00:17:7c:2f:b6:9a as in Export Anchor role

*pemReceiveTask: May 19 13:36:34.565: 00:17:7c:2f:b6:9a 60.60.60.11 Added NPU entry

of type 2, dtlFlags 0x4

*pemReceiveTask: May 19 13:36:34.565: 00:17:7c:2f:b6:9a Pushing IPv6:

fe80:0000:0000:0000:6c1a:b253:d711:0c7f , and MAC: 00:17:7C:2F:B6:9A , Binding to

Data Plane. SUCCESS !!

*pemReceiveTask: May 19 13:36:34.565: 00:17:7c:2f:b6:9a Sent an XID frame

(5508-MC) >

(5508-MC) >

(5508-MC) >*DHCP Socket Task: May 19 13:36:44.259: 00:17:7c:2f:b6:9a DHCP received

op BOOTREQUEST (1) (len 314,vlan 0, port 1, encap 0xec07)

*DHCP Socket Task: May 19 13:36:44.259: 00:17:7c:2f:b6:9a DHCP (encap type 0xec07)

mstype 3ff:ff:ff:ff:ff:ff

*DHCP Socket Task: May 19 13:36:44.259: 00:17:7c:2f:b6:9a DHCP selecting relay 1 -

control block settings:

dhcpServer: 0.0.0.0, dhcpNetmask: 0.0.0.0,

dhcpGateway: 0.0.0.0, dhcpRelay: 0.0.0.0 VLAN: 0

*DHCP Socket Task: May 19 13:36:44.259: 00:17:7c:2f:b6:9a DHCP selected relay 1 -

60.60.60.251 (local address 60.60.60.2, gateway 60.60.60.251, VLAN 60, port 1)

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP transmitting DHCP

REQUEST (3)

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP op: BOOTREQUEST,

htype: Ethernet, hlen: 6, hops: 1

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP xid: 0xad00ada3

(2902502819), secs: 3072, flags: 0

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP chaddr:

00:17:7c:2f:b6:9a

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP ciaddr: 0.0.0.0,

yiaddr: 0.0.0.0

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP siaddr: 0.0.0.0,

giaddr: 60.60.60.2

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP requested ip:

60.60.60.11

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP sending REQUEST to

60.60.60.251 (len 358, port 1, vlan 60)

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP selecting relay 2 -

control block settings:

dhcpServer: 0.0.0.0, dhcpNetmask: 0.0.0.0,

dhcpGateway: 0.0.0.0, dhcpRelay: 60.60.60.2 VLAN: 60

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP selected relay 2 - NONE (server address 0.0.0.0, local address 0.0.0.0, gateway 60.60.60.251, VLAN 60, port 1)

*DHCP Socket Task: May 19 13:36:44.260: 00:17:7c:2f:b6:9a DHCP received op BOOTREPLY (2) (len 308, vlan 60, port 1, encap 0xec00)

*DHCP Socket Task: May 19 13:36:44.261: 00:17:7c:2f:b6:9a DHCP setting server from ACK (server 60.60.60.251, yiaddr 60.60.60.11)

*DHCP Socket Task: May 19 13:36:44.261: 00:17:7c:2f:b6:9a DHCP transmitting DHCP ACK (5)

*DHCP Socket Task: May 19 13:36:44.261: 00:17:7c:2f:b6:9a DHCP op: BOOTREPLY, htype: Ethernet, hlen: 6, hops: 0

*DHCP Socket Task: May 19 13:36:44.261: 00:17:7c:2f:b6:9a DHCP xid: 0xad00ada3 (2902502819), secs: 0, flags: 0

*DHCP Socket Task: May 19 13:36:44.261: 00:17:7c:2f:b6:9a DHCP chaddr: 00:17:7c:2f:b6:9a

***DHCP Socket Task: May 19 13:36:44.261: 00:17:7c:2f:b6:9a DHCP ciaddr: 0.0.0.0, yiaddr: 60.60.60.11**

***DHCP Socket Task: May 19 13:36:44.261: 00:17:7c:2f:b6:9a DHCP siaddr: 0.0.0.0, giaddr: 0.0.0.0**

***DHCP Socket Task: May 19 13:36:44.261: 00:17:7c:2f:b6:9a DHCP server id: 192.168.200.1 rcvd server id: 60.60.60.251**

***webauthRedirect: May 19 13:36:47.678: 0:17:7c:2f:b6:9a- received connection**

***webauthRedirect: May 19 13:36:47.680: captive-bypass detection disabled, Not checking for wispr in HTTP GET, client mac=0:17:7c:2f:b6:9a**

*webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- Preparing redirect URL according to configured Web-Auth type

*webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- Checking custom-web config for WLAN ID:4

***webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- unable to get the hostName for virtual IP, using virtual IP =192.168.200.1**

*webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- Global status is enabled, checking on web-auth type

*webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- Web-auth type Internal, no further redirection needed. Presenting default login page to user

*webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- http_response_msg_body1 is <HTML><HEAD><TITLE> Web Authentication Redirect</TITLE><META http-equiv="Cache-control" content="no-cache"><META http-equiv="Pragma" content="n

*webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- http_response_msg_body2 is "></HEAD></HTML>

***webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- parser host is www.facebook.com**

*webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- parser path is /

***webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- added redirect=, URL is now https://192.168.200.1/login.html?**

***webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- str1 is now https://192.168.200.1/login.html?redirect=www.facebook.com/**

*webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- clen string is Content-Length: 312

***webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- Message to be sent is HTTP/1.1 200 OK**

Location: https://192.168.200.1/login.html?redirect=www.facebook.com/

Content-Type: text/html

Content-Length: 312

<HTML><HEAD

*webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- send data length=448

*webauthRedirect: May 19 13:36:47.680: 0:17:7c:2f:b6:9a- Web-auth type External, but unable to get URL

*webauthRedirect: May 19 13:36:47.681: 0:17:7c:2f:b6:9a- received connection

*emWeb: May 19 13:36:48.731: SSL Connection created for MAC:0:17:7c:2f:b6:9a

*webauthRedirect: May 19 13:36:51.795: 0:17:7c:2f:b6:9a- received connection

*webauthRedirect: May 19 13:36:51.795: captive-bypass detection disabled, Not checking for wispr in HTTP GET, client mac=0:17:7c:2f:b6:9a

*webauthRedirect: May 19 13:36:51.795: 0:17:7c:2f:b6:9a- Preparing redirect URL according to configured Web-Auth type

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- Checking custom-web config for WLAN ID:4

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- unable to get the hostName for virtual IP, using virtual IP =192.168.200.1

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- Global status is enabled, checking on web-auth type

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- Web-auth type Internal, no further redirection needed. Presenting default login page to user

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- http_response_msg_body1 is <HTML><HEAD><TITLE> Web Authentication Redirect</TITLE><META http-equiv="Cache-control" content="no-cache"><META http-equiv="Pragma" content="n

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- http_response_msg_body2 is "></HEAD></HTML>

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- parser host is www.facebook.com

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- parser path is /favicon.ico

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- added redirect=, URL is now https://192.168.200.1/login.html?

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- str1 is now https://192.168.200.1/login.html?redirect=www.facebook.com/favicon.ico

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- clen string is Content-Length: 323

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- Message to be sent is HTTP/1.1 200 OK
Location: https://192.168.200.1/login.html?redirect=www.facebook.com/favicon.ico
Content-Type: text/html
Content-Length: 323

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- send data length=470

*webauthRedirect: May 19 13:36:51.796: 0:17:7c:2f:b6:9a- Web-auth type External, but unable to get URL

*DHCP Socket Task: May 19 13:37:03.905: 00:17:7c:2f:b6:9a DHCP received op BOOTREQUEST (1) (len 308,vlan 0, port 1, encap 0xec07)

*DHCP Socket Task: May 19 13:37:03.905: 00:17:7c:2f:b6:9a DHCP (encap type 0xec07) mstype 3ff:ff:ff:ff:ff:ff

*DHCP Socket Task: May 19 13:37:03.905: 00:17:7c:2f:b6:9a DHCP selecting relay 1 - control block settings:
 dhcpServer: 60.60.60.251, dhcpNetmask: 255.255.255.0,
 dhcpGateway: 60.60.60.251, dhcpRelay: 60.60.60.2 VLAN: 60

*emWeb: May 19 13:38:35.187:
ewaURLHook: Entering:url=/login.html, virtIp = 192.168.200.1, ssl_connection=1, secureweb=1

***emWeb: May 19 13:38:35.199: WLC received client 0:17:7c:2f:b6:9a request for Web-Auth page /login.html**

***emWeb: May 19 13:38:35.199: WLC received client 0:17:7c:2f:b6:9a request for Web-Auth page /login.html**

```

*emWeb: May 19 13:38:47.215:
ewaURLHook: Entering:url=/login.html, virtIp = 192.168.200.1, ssl_connection=1,
secureweb=1

*ewmwebWebauth1: May 19 13:38:47.216: 00:17:7c:2f:b6:9a Username entry (surbg)
created for mobile, length = 5
*ewmwebWebauth1: May 19 13:38:47.216: 00:17:7c:2f:b6:9a Username entry (surbg)
created in mscb for mobile, length = 5
*ewmwebWebauth1: May 19 13:38:47.216: 00:17:7c:2f:b6:9a 60.60.60.11 WEBAUTH_REQD
(8) Change state to WEBAUTH_NOL3SEC (14) last state WEBAUTH_REQD (8)

*ewmwebWebauth1: May 19 13:38:47.216: 00:17:7c:2f:b6:9a apfMsRunStateInc
*ewmwebWebauth1: May 19 13:38:47.216: 00:17:7c:2f:b6:9a 60.60.60.11 WEBAUTH_NOL3SEC
(14) Change state to RUN (20) last state WEBAUTH_NOL3SEC (14)

*ewmwebWebauth1: May 19 13:38:47.216: 00:17:7c:2f:b6:9a Session Timeout is 0 -
not starting session timer for the mobile
*ewmwebWebauth1: May 19 13:38:47.216: 00:17:7c:2f:b6:9a 60.60.60.11 RUN (20)
Reached PLUMBFASPATH: from line 6605
*ewmwebWebauth1: May 19 13:38:47.216: 00:17:7c:2f:b6:9a 60.60.60.11 RUN (20)
Replacing Fast Path rule
  type = Airespace AP Client
  on AP 00:00:00:00:00:00, slot 0, interface = 1, QOS = 0
  IPv4 ACL ID = 255, IPv6 ACL ID =

```

Aquí está la captura de paquetes del client cara.

El cliente consigue la dirección IP.

Smartlin_2f:b6:9a	Broadcast	ARP	42	who has 60.60.60.11? Tell 0.0.0.0
Smartlin_2f:b6:9a	Broadcast	ARP	42	who has 60.60.60.251? Tell 60.60.60.11
Smartlin_2f:b6:9a	Broadcast	ARP	42	Gratuitous ARP for 60.60.60.11 (Request)
0.0.0.0	255.255.255.255	DHCP	348	DHCP Request - Transaction ID 0xd73b645b
192.168.200.1	60.60.60.11	DHCP	346	DHCP ACK - Transaction ID 0xd73b645b

El cliente abre a un navegador y teclea www.facebook.com.

60.60.60.11	50.50.50.251	DNS	76	standard query 0x18bc A www.facebook.com
50.50.50.251	60.60.60.11	DNS	92	Standard query response 0x18bc A 56.56.56.56
60.60.60.11	50.50.50.251	DNS	76	Standard query 0xab1b AAAA www.facebook.com
60.60.60.11	50.50.50.251	DNS	76	Standard query 0xab1b AAAA www.facebook.com
60.60.60.11	50.50.50.251	DNS	76	Standard query 0xab1b AAAA www.facebook.com

```

Frame 508: 76 bytes on wire (608 bits), 76 bytes captured (608 bits) on interface 0
Ethernet II, Src: Smartlin_2f:b6:9a (00:17:7c:2f:b6:9a), Dst: Cisco_fc:96:a8 (f0:f7:55:fc:96:a8)
Internet Protocol version 4, Src: 60.60.60.11 (60.60.60.11), Dst: 50.50.50.251 (50.50.50.251)
User Datagram Protocol, Src Port: 62672 (62672), Dst Port: domain (53)
Domain Name System (query)
  Transaction ID: 0xab1b
  Flags: 0x0100 Standard query
  Questions: 1
  Answer RRs: 0
  Authority RRs: 0
  Additional RRs: 0
  Queries
    www.facebook.com: type AAAA, class IN

```

El WLC intercepta el primer paquete TCP del cliente y avanza su dirección IP virtual y la página interna de Webauth.

```

56.56.56.56 60.60.60.11 TCP 54 http > 49720 [ACK] Seq=1 Ack=207 win=6656 Len=0
56.56.56.56 60.60.60.11 HTTP 524 HTTP/1.1 200 OK (text/html)
56.56.56.56 60.60.60.11 TCP 54 http > 49720 [ACK] Seq=1 Ack=207 win=6656 Len=0
Frame 550: 524 bytes on wire (4192 bits), 524 bytes captured (4192 bits) on interface 0
Ethernet II, Src: Cisco_fc:96:a8 (f0:f7:55:fc:96:a8), Dst: Smartlin_2f:b6:9a (00:17:7c:2f:b6:9a)
Internet Protocol version 4, Src: 56.56.56.56 (56.56.56.56), Dst: 60.60.60.11 (60.60.60.11)
Transmission Control Protocol, Src Port: http (80), Dst Port: 49720 (49720), Seq: 1, Ack: 207, Len: 470
Hypertext Transfer Protocol
  HTTP/1.1 200 OK\r\n
  Location: https://192.168.200.1/login.html?redirect=www.facebook.com/favicon.ico\r\n
  Content-Type: text/html\r\n
  Content-Length: 323\r\n
  \r\n
  [HTTP response 1/1]

```

Después de la autenticación Web acertada, el resto del flujo de trabajo completa.

60.60.60.11	50.50.50.251	DNS	86 Standard query 0x64dd A fe9cv11st.fe.microsoft.com
60.60.60.11	192.168.200.1	TCP	66 49724 > https [SYN] Seq=0 win=8192 Len=0 MSS=1460 WS=4 SACK_PERM=1
192.168.200.1	60.60.60.11	TCP	66 https > 49724 [SYN, ACK] Seq=0 Ack=1 win=3560 Len=0 MSS=1390 SACK_PERM=1 WS=64
60.60.60.11	192.168.200.1	TCP	54 49724 > https [ACK] Seq=1 Ack=1 win=16680 Len=0
60.60.60.11	192.168.200.1	TLSv1	190 Client Hello
192.168.200.1	60.60.60.11	TCP	54 https > 49724 [ACK] Seq=1 Ack=137 win=6656 Len=0
192.168.200.1	60.60.60.11	TLSv1	192 Server Hello, Change Cipher Spec, Encrypted Handshake Message
60.60.60.11	192.168.200.1	TLSv1	113 change cipher spec, encrypted Handshake Message
60.60.60.11	50.50.50.251	DNS	83 Standard query 0xb814 A ct1d1.windowsupdate.com
192.168.200.1	60.60.60.11	TCP	54 https > 49724 [ACK] Seq=139 Ack=196 win=6656 Len=0
60.60.60.11	50.50.50.251	DNS	83 Standard query 0xb814 A ct1d1.windowsupdate.com