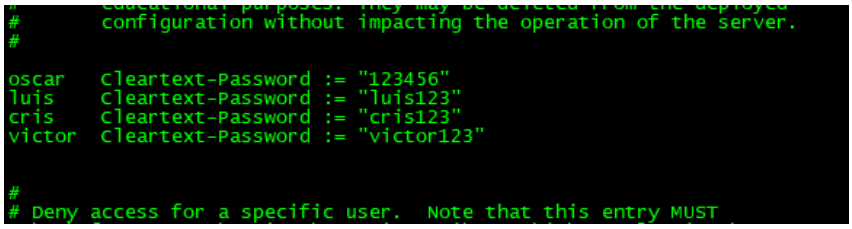
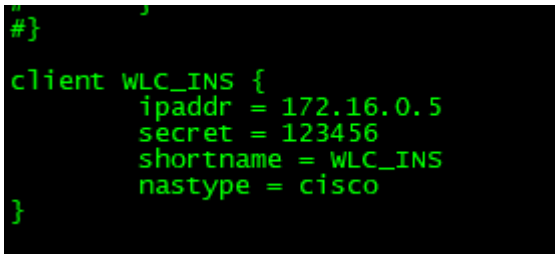
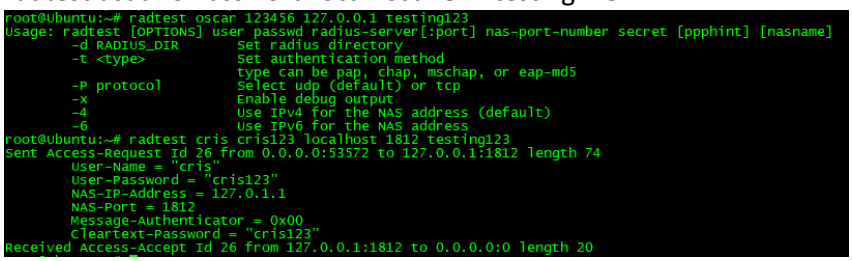
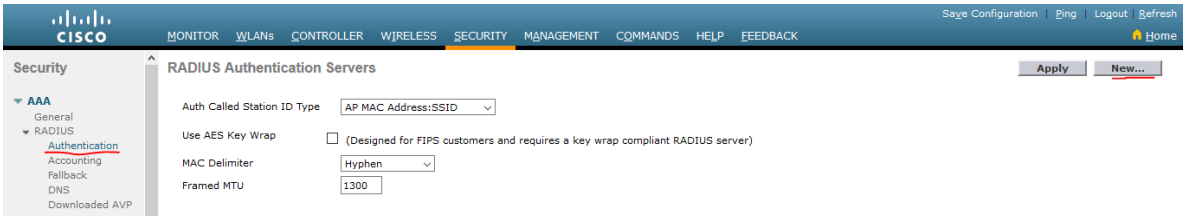
Configurar RADIUS y WLC (802.1X)

Configurar RADIUS on Linux

1. Instalar freeRADIUS
    a. Sudo apt-get install freeradius
2. Verificar versión
    a. Freeradius -v
3. Crear usuarios
    a. nano /etc/freeradius/users
    b. usuario Cleartext := “Password”
    c. 
```
#       configuration without impacting the operation of the server.
#

oscar   Cleartext-Password := "123456"
luis    Cleartext-Password := "luis123"
cris    Cleartext-Password := "cris123"
victor  Cleartext-Password := "victor123"


#
# Deny access for a specific user.  Note that this entry MUST
```
4. Configurar cliente WLC
    a. Nano /etc/freeradius/client.conf
    b. Client “Nombre_Cliente {
    ipaddr = IPADDR
    secret = SecretPass
    shortname = WLC_NAME
    nastype = Tipo_de_Disp
    }
    c. 
```
#}

client WLC_INS {
        ipaddr = 172.16.0.5
        secret = 123456
        shortname = WLC_INS
        nastype = cisco
}
```
5. Reestablecer servicios
    a. Service freeradius restart
6. Test de usuarios
    a. radtest usuario Password localhost 1812 testing123
    b. 
```
root@Ubuntu:~# radtest oscar 123456 127.0.0.1 testing123
Usage: radtest [OPTIONS] user passwd radius-server[:port] nas-port-number secret [ppphint] [nasname]
        -d RADIUS_DIR       Set radius directory
        -t <type>           Set authentication method
                            type can be pap, chap, mschap, or eap-md5
        -P protocol         Select udp (default) or tcp
        -x                  Enable debug output
        -4                  Use IPv4 for the NAS address (default)
        -6                  Use IPv6 for the NAS address
root@Ubuntu:~# radtest cris cris123 localhost 1812 testing123
Sent Access-Request Id 26 from 0.0.0.0:53572 to 127.0.0.1:1812 length 74
        User-Name = "cris"
        User-Password = "cris123"
        NAS-IP-Address = 127.0.1.1
        NAS-Port = 1812
        Message-Authenticator = 0x00
        Cleartext-Password = "cris123"
Received Access-Accept Id 26 from 127.0.0.1:1812 to 0.0.0.0:0 length 20
```

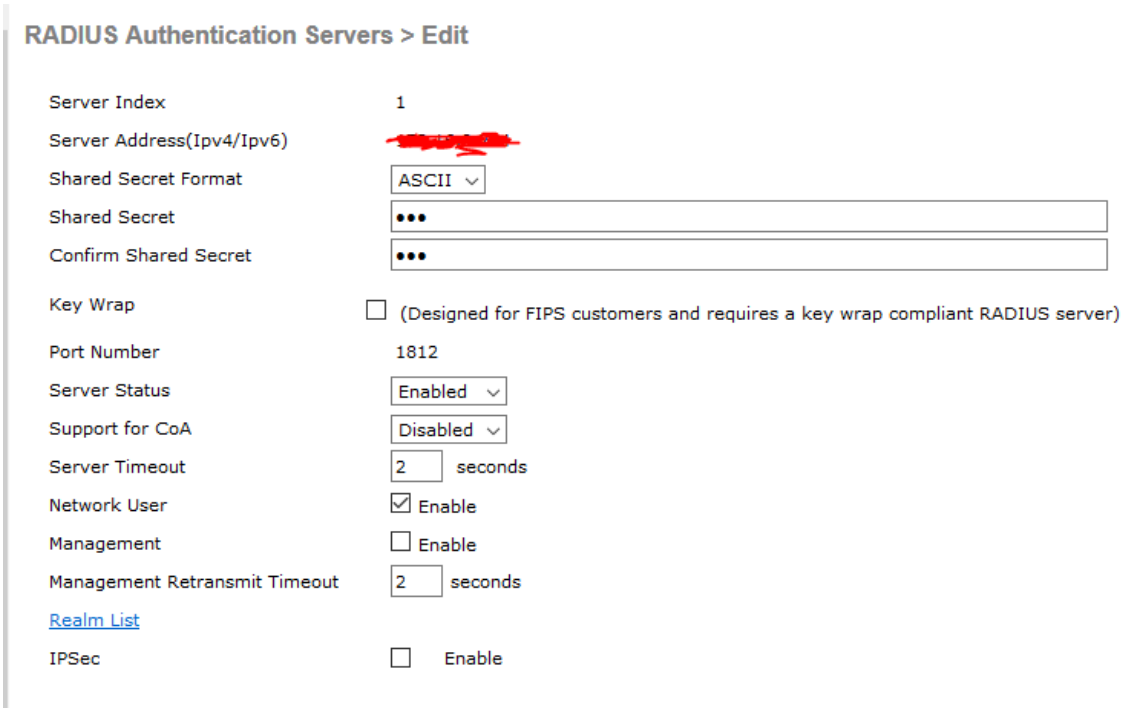
Configurar WLC

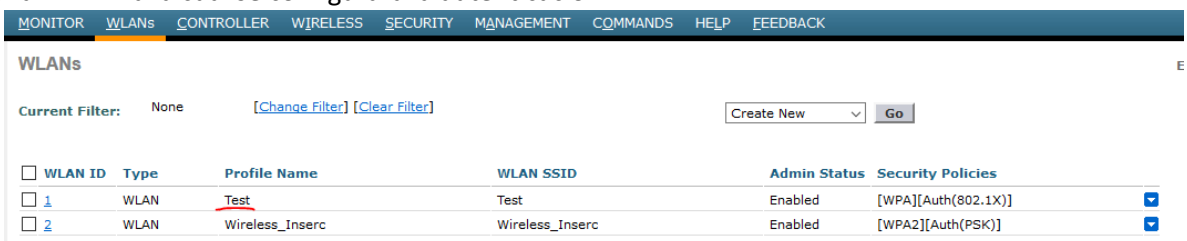
Acceder a la WLC > Security > RADIUS > Authentication > New…



Agregar siguiente información:

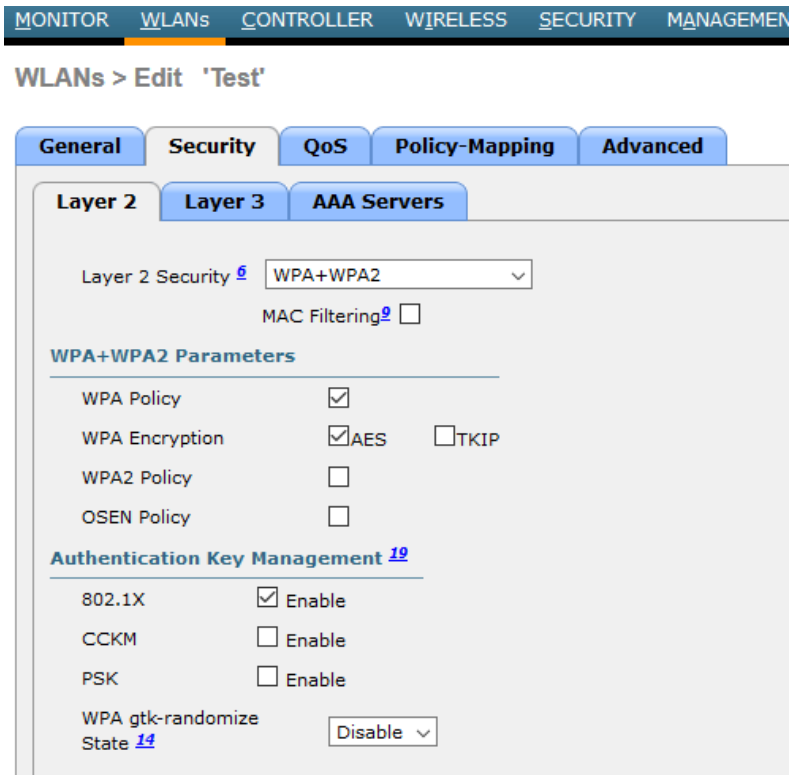
1. IP del Servidor
2. Secret (revisar paso 4 de instalación de RADIUS)



3.
4. Reestablecer servicios de servidor Radius (Revisar paso 5 de Instalación de RADIUS)
5. Seleccionar WLAN a la cual se configurará la autenticación
   a. 

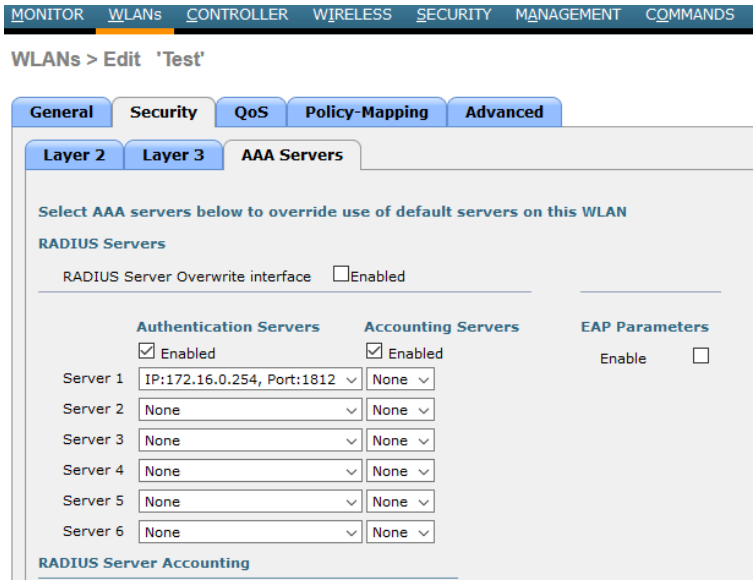
6. Security > Layer 2
   a. WPA+WPA2
   b. WAP Policy
   c. WPA Encryption > AES

d. 802.1X

e. 

7. Security AAA Server

a. Seleccionar Servidor RADIUS

b. 

8. Apply
9. Probar autenticación de la SSID