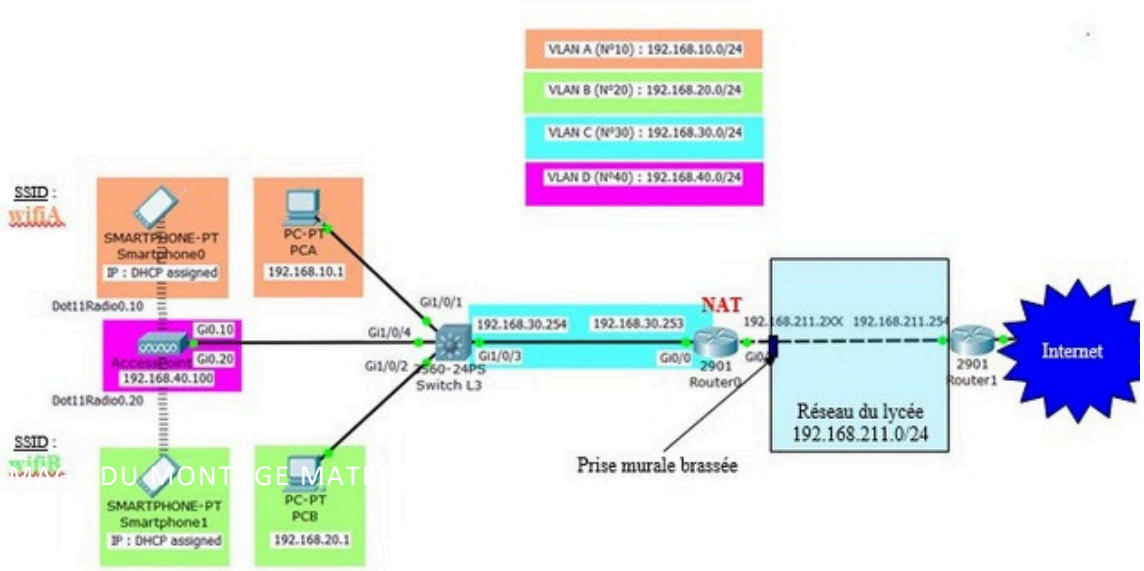
CONFIGURATION DE BORNE WIFI

TABLE DES MATIERES

SCHEMA DU RESEAU



LES PROCEDURES DE CONFIGURATIONS

- Création de VLAN sur le Switch L3
- Attribuer un port pour chaque VLAN
- Définir les interfaces NAT

SWITCH/ ETAPE 1 / REMISE A ZERO

Effacer toutes les anciennes configurations afin de tous remettre à zéro.

```
Switch#write erase
Erasing the nvram filesystem will remove all configuration files! Continue? [confirm]
[OK]
Erase of nvram: complete
Switch#
```

Renommer le Switch et le Routeur

```
Switch#
Switch#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname switchL3
switchL3(config)#
```

Puis faire la commande « Reload » afin de redémarrer la machine

SWITCH/ ETAPE 2 / CREATION DE VLAN + ATTRIBUTION DES PORTS

Depuis le schéma, il faut créer les VLAN :

```
switchL3(config)#vlan 10
switchL3(config-vlan)#exit
switchL3(config)#vlan 10
switchL3(config-vlan)#name wifiA
switchL3(config-vlan)#exit
switchL3(config)#vlan 20
switchL3(config-vlan)#name vlanB
switchL3(config-vlan)#exit
switchL3(config)#vlan30
                    ^
% Invalid input detected at '^' marker.

switchL3(config)#vlan 30
switchL3(config-vlan)#name switch-routeur
switchL3(config-vlan)#exit
switchL3(config)#vlan 40
switchL3(config-vlan)#name borneWifi
switchL3(config-vlan)#exit
switchL3(config)#*
```

```
switchL3(config)#do show vlan

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Gi3/0/5, Gi3/0/6, Gi3/0/7
                                                Gi3/0/8, Gi3/0/9, Gi3/0/10
                                                Gi3/0/11, Gi3/0/12, Gi3/0/13
                                                Gi3/0/14, Gi3/0/15, Gi3/0/16
                                                Gi3/0/17, Gi3/0/18, Gi3/0/19
                                                Gi3/0/20, Gi3/0/21, Gi3/0/22
                                                Gi3/0/23, Gi3/0/24
10   wifiA                            active    Gi3/0/1
20   vlanB                            active    Gi3/0/2
30   switch-routeur                   active    Gi3/0/3
40   borneWifi                        active
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------
1    enet  100001     1500  -      -      -        -    -        0      0
10   enet  100010     1500  -      -      -        -    -        0      0
```

Ensuite il faut adresser un port pour chaque VLAN :

```
switchL3#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
switchL3(config)#int GigabitEthernet3/0/1
switchL3(config-if)#switchport mode access
switchL3(config-if)# switchport access vlan 10
switchL3(config-if)#exit
switchL3(config)#int GigabitEthernet3/0/2
switchL3(config-if)#switchport mode access
switchL3(config-if)# switchport access vlan 20
```

Faire la même chose pour le vlan 30 et 40

Puis faire un copy run start pour sauvegarder les configurations.

Pour vérifier faire la commande do show run

```
interface GigabitEthernet3/0/1
 switchport access vlan 10
 switchport mode access
!
interface GigabitEthernet3/0/2
 switchport access vlan 20
 switchport mode access
!
interface GigabitEthernet3/0/3
 switchport access vlan 30
 switchport mode access
!
interface GigabitEthernet3/0/4
 switchport access vlan 40
 switchport mode access
!
```

SWITCH/ ETAPE 3 / DONNER UNE IP STATIQUE POUR CHAQUE VLAN

Maintenant que nous avons créé les VLAN et attribuer aux port, il nous reste à leur donner une IP statique et de les activer.

interface vlan 10
 ip address 192.168.10.254 255.255.255.0
 no shutdown

interface vlan 20
 ip address 192.168.20.254 255.255.255.0
 no shutdown

interface vlan 30
 ip address 192.168.30.254 255.255.255.0
 no shutdown

interface vlan 40
 ip address 192.168.40.254 255.255.255.0
 no shutdown

SWITCH/ ETAPE 5 / ACTIVER LE ROUTAGE

en
conf t
ip routing

SWITCH/ ETAPE 6 / CREATION DES ROUTES

Le switch de niveau 3 à deux routes connecter, cependant il faut lui ajouter une route pour la connexion internet

```
ip route 0.0.0.0 0.0.0.0 192.168.30.253
```

SWITCH/ ETAPE 7 / CREATION DES POOL D'ADRESSE DHCP

Pour que la borne wifi donne une adresse IP en DHCP quand nous nous connecterons avec un smartphone, il faut créer un pool d'adresse pour les VLAN 10 et 20

```
en
conf t

ip dhcp pool vlan10
network 192.168.10.0 255.255.255.0
default-router 192.168.10.254
exit

ip dhcp pool vlan20
network 192.168.20.0 255.255.255.0
default-router 192.168.20.254
```

Faire un copy run start de la configuration puis nous avons terminé pour le switch

CONFIGURATION DU ROUTEUR

ETAPE 1 / DONNER UNE ADRESSE IP AUX INTERFACES

Nous avons l'interface gi0/0 et gi0/1 qui n'ont pas d'adresse IP, il faut leur en donner une :

Int gi0/0 Ip address 192.168.30.253 255.255.255.0 Ne pas faire l'interface 0/1 car finalement, elle est déjà en DHCP

ETAPE 2 / CONFIGURATION DU NAT

Sur le routeur, il faut indiquer le réseau interne et externe pour chaque interface :

interface GigabitEthernet0/0

ip nat inside

interface GigabitEthernet0/1

ip nat outside

access-list 1 permit any

ip nat inside source list 1 int gi0/1 overload

ETAPE 3 / ATTRIBUER DES ROUTES

Il faut donner une route vers internet et une route à l'ensemble des VLANs

en
conf t
ip route 0.0.0.0 0.0.0.0 192.168.211.254
ip route 192.168.0.0 255.255.0.0 192.168.30.254

CONFIGURATION DE LA BORNE WIFI

ETAPE 1 / SUPPRIMER LES ANCIENNES CONFIGURATIONS

en
write erase
reload

ETAPE 2 / CONFIGURATION DE L'INTERFACE BVI AVEC PASSERELLE PAR DEFAUT

Configuration d'une interface BVI1 avec l'adresse IP 192.168.40.100/24, activation de l'interface, et définition de la passerelle par défaut à 192.168.40.254 pour le routage des paquets vers d'autres réseaux.

int BVI1
ip address 192.168.40.100 255.255.255.0
no shutdown
exit
ip default-gateway 192.168.40.254

ETAPE 3 / CONFIGURATION D'UN SSID SUR UN POINT D'ACCES

Création du SSID wifiA associé au VLAN 10 avec une sécurité WPA2-PSK et un mot de passe MotDePasse1, diffusé en

dot11 ssid wifiA
vlan 10
authentication open
authentication key-management wpa version 2
wpa-psk ascii MotDePasse1
mbssid guest-mode
exit

Faire la même chose pour le VLAN 20

ETAPE 4 / CONFIGURATION DE L'INTERFACE RADIO WI-FI

Activation du multi-SSID, configuration du chiffrement AES pour le VLAN 10, association avec le SSID wifiA, sélection automatique du canal le moins encombré parmi 1, 6, et 11, et activation de l'interface.

int dot11radio0
mbssid
encryption vlan 10 mode ciphers aes-ccm
ssid wifiA
channel least-congested 1 6 11
no shutdown

Faire la même chose pour le WifiB (Vlan 20)

ETAPE 5 / CONFIGURATION D'UN BRIDGE VLAN 10

Création du bridge 10 avec le protocole IEEE, routage IP activé, configuration des sous-interfaces Dot11Radio0.10 et Gi0.10 avec encapsulation VLAN 10, et association au bridge-group 10.

```
bridge 10 protocol ieee
bridge 10 route ip
interface Dot11Radio0.10
encapsulation dot1Q 10
bridge-group 10
exit
interface Gi0.10
encapsulation dot1Q 10
bridge-group 10
exit
```

Faire la même chose pour le Vlan 20.

SHOW RUN DU SWITCH

```
Switch(config-if)#do show run
Building configuration...

Current configuration : 9162 bytes ! ! Last configuration change at 09:37:11 UTC Thu Nov 21 2024 ! version 16.9 no service pad service timestamps debug datetime msec service timestamps log datetime msec service call-home no platform punt-keepalive disable-kernel-core ! hostname Switch ! ! vrf definition Mgmt-vrf
```

```
!
address-family ipv4
exit-address-family
!
address-family ipv6
exit-address-family
!
```

```
! no aaa new-model switch 3
provision ws-c3850-24p ! ! ! ! call-
home



 ! If contact email address in call-home is configured as sch-smart-licensing@cisco.com
 ! the email address configured in Cisco Smart License Portal will be used as contact email address to send SCH
notifications.
 contact-email-addr sch-smart-licensing@cisco.com
 profile "CiscoTAC-1"
  active
  destination transport-method http
  no destination transport-method email
ip routing
!
!
!
!
!
!
ip dhcp pool vlan10
 network 192.168.10.0 255.255.255.0
 default-router 192.168.10.254
 dns-server 8.8.8.8
!
ip dhcp pool vlan20
 network 192.168.20.0 255.255.255.0
 default-router 192.168.20.254
 dns-server 8.8.8.8
!
ip dhcp pool vlan30
 network 192.168.30.0 255.255.255.0
 default-router 192.168.30.254
!
!
!
login on-success log
!
!
!
!
!
!
crypto pki trustpoint SLA-TrustPoint
 enrollment pkcs12
 revocation-check crl
!
```

```
crypto pki trustpoint TP-self-signed-1029270733
 enrollment selfsigned
 subject-name cn=IOS-Self-Signed-Certificate-1029270733
 revocation-check none
 rsakeypair TP-self-signed-1029270733
!
!
crypto pki certificate chain SLA-TrustPoint
 certificate ca 01
  30820321 30820209 A0030201 02020101 300D0609 2A864886 F70D0101 0B050030
  32310E30 0C060355 040A1305 43697363 6F312030 1E060355 04031317 43697363
  6F204C69 63656E73 696E6720 526F6F74 20434130 1E170D31 33303533 30313934
  3834375A 170D3338 30353330 31393438 34375A30 32310E30 0C060355 040A1305
  43697363 6F312030 1E060355 04031317 43697363 6F204C69 63656E73 696E6720
  526F6F74 20434130 82012230 0D06092A 864886F7 0D010101 05000382 010F0030
  82010A02 82010100 A6BCBD96 131E05F7 145EA72C 2CD686E6 17222EA1 F1EFF64D
  CBB4C798 212AA147 C655D8D7 9471380D 8711441E 1AAF071A 9CAE6388 8A38E520
  1C394D78 462EF239 C659F715 B98C0A59 5BBB5CBD 0CFEBEA3 700A8BF7 D8F256EE
  4AA4E80D DB6FD1C9 60B1FD18 FFC69C96 6FA68957 A2617DE7 104FDC5F EA2956AC
  7390A3EB 2B5436AD C847A2C5 DAB553EB 69A9A535 58E9F3E3 C0BD23CF 58BD7188
  68E69491 20F320E7 948E71D7 AE3BCC84 F10684C7 4BC8E00F 539BA42B 42C68BB7
  C7479096 B4CB2D62 EA2F505D C7B062A4 6811D95B E8250FC4 5D5D5FB8 8F27D191
  C55F0D76 61F9A4CD 3D992327 A8BB03BD 4E6D7069 7CBADF8B DF5F4368 95135E44
  DFC7C6CF 04DD7FD1 02030100 01A34230 40300E06 03551D0F 0101FF04 04030201
  06300F06 03551D13 0101FF04 05300301 01FF301D 0603551D 0E041604 1449DC85
  4B3D31E5 1B3E6A17 606AF333 3D3B4C73 E8300D06 092A8648 86F70D01 010B0500
  03820101 00507F24 D3932A66 86025D9F E838AE5C 6D4DF6B0 49631C78 240DA905
  604EDCDE FF4FED2B 77FC460E CD636FDB DD44681E 3A5673AB 9093D3B1 6C9E3D8B
  D98987BF E40CBD9E 1AECA0C2 2189BB5C 8FA85686 CD98B646 5575B146 8DFC66A8
  467A3DF4 4D565700 6ADF0F0D CF835015 3C04FF7C 21E878AC 11BA9CD2 55A9232C
  7CA7B7E6 C1AF74F6 152E99B7 B1FCF9BB E973DE7F 5BDDEB86 C71E3B49 1765308B
  5FB0DA06 B92AFE7F 494E8A9E 07B85737 F3A58BE1 1A48A229 C37C1E69 39F08678
  80DDCD16 D6BACECA EEBC7CF9 8428787B 35202CDC 60E4616A B623CDBD 230E3AFB
  418616A9 4093E049 4D10AB75 27E86F73 932E35B5 8862FDAE 0275156F 719BB2F0
  D697DF7F 28


      quit
crypto pki certificate chain TP-self-signed-1029270733
 certificate self-signed 01
  30820330 30820218 A0030201 02020101 300D0609 2A864886 F70D0101 05050030
  31312F30 2D060355 04031326 494F532D 53656C66 2D536967 6E65642D 43657274
  69666963 6174652D 31303239 32373037 3333301E 170D3233 30373237 31333438
  31365A17 0D333030 31303130 30303030 305A3031 312F302D 06035504 03132649
  4F532D53 656C662D 5369676E 65642D43 65727469 66696361 74652D31 30323932
  37303733 33308201 22300D06 092A8648 86F70D01 01010500 0382010F 00308201
  0A028201 0100C151 78338E12 DCBD6365 21E5482E 345739D6 0215C1C9 986DD4CF
  AAE2971C 72540E6F 1F151B19 D63A7522 64EE1AC9 2ACB0FB8 91F4E7A2 10D74F10
  077FCD64 84746938 DFD5DF2A D002A9D9 1F7090C4 A51506FC 5B104418 81FE2966
  76440D80 30C395A1 D6B9B71E F39D04B2 C91D5A88 6824D3E1 AB3042EB 2E3BB617
  A67435F9 8E61DA8F 2F7CEB5A 5925A770 D0FBA3D2 54C4C90A EF44CBCC E748F000
  D206F2C3 48BA4E62 F051B974 EF843F16 235FA5B9 97D671A5 363BE63A 8E2D5B31
```

```
  0539C812 2BC6A5DF 5951F2A1 59850CE6 5C30CE8B 4585FB6C A3C6332E 08AF6850
  B8F691B6 2DFAF875 46B3B188 8DD8F800 E6631CC3 D2CC42EC E8B738C1 2FE2968C
  470F46C6 50050203 010001A3 53305130 0F060355 1D130101 FF040530 030101FF
  301F0603 551D2304 18301680 14C46CF2 FE4064B1 4EE2199B A1CE3B44 3BD114D2
  29301D06 03551D0E 04160414 C46CF2FE 4064B14E E2199BA1 CE3B443B D114D229
  300D0609 2A864886 F70D0101 05050003 82010100 A52091BF C336367B A026CBBA
  F52833BF F17CC54A D1B8CC72 1D248530 D9B49F8F 3019949D 388CB5B1 271E6D21
  B957981D 7EF37E7A 498BA19A 24394A57 FA3C08B1 EC0636BD 071822F5 C34A83AF
  E2E6C463 93FC75E4 49CF6C3A 22B8768B 1AE3DED2 FEA663B8 711C081B F92FC2FC
  72CF1BB0 064BAE78 D7F84274 51F9FFF5 A1653D53 C38A5572 1F38F3F8 3FF80A44
  DCA34F7E CC166F04 1F7B58A8 4A524FD5 FBADD1F1 B2817A7D A597EF89 A0ABB8D5
  DAFBE7CB 72B372D6 4BB7CE03 F1558950 F6603978 271355D3 D7E94BF6 DC7C9B80
  DCDF8635 4DDD5B3C E45BAB07 3D2B1266 41EB0670 5A88C77E ACBDDE75 FAF9D252
  BFD5730E 88CC023F A01FDB4C 09B489A7 96AA4482

      quit
!
!
!
diagnostic bootup level minimal
!
spanning-tree mode rapid-pvst
spanning-tree extend system-id
!
!
!
redundancy

 mode sso
!
!
!
!
!
transceiver type all

 monitoring
!
!
class-map match-any system-cpp-police-topology-control
  description Topology control
  class-map match-any system-cpp-police-sw-forward
    description Sw forwarding, L2 LVX data, LOGGING
class-map match-any system-cpp-default
  description Inter FED, EWLC control, EWLC data
  class-map match-any system-cpp-police-sys-data
  description Learning cache ovfl, High Rate App, Exception, EGR Exception, NFL SAMPLED DATA, RPF Failed
class-map match-any system-cpp-police-punt-webauth
  description Punt Webauth
class-map match-any system-cpp-police-l2lvx-control
  description L2 LVX control packets
class-map match-any system-cpp-police-forus
  description Forus Address resolution and Forus traffic
```

```
class-map match-any system-cpp-police-multicast-end-station
 description MCAST END STATION
class-map match-any system-cpp-police-multicast
 description Transit Traffic and MCAST Data
class-map match-any system-cpp-police-l2-control
 description L2 control
class-map match-any system-cpp-police-dot1x-auth
 description DOT1X Auth
class-map match-any system-cpp-police-data
 description ICMP redirect, ICMP_GEN and BROADCAST
class-map match-any system-cpp-police-stackwise-virt-control
 description Stackwise Virtual
class-map match-any non-client-nrt-class
class-map match-any system-cpp-police-routing-control
 description Routing control and Low Latency
class-map match-any system-cpp-police-protocol-snooping
 description Protocol snooping
class-map match-any system-cpp-police-dhcp-snooping
 description DHCP snooping
class-map match-any system-cpp-police-system-critical
 description System Critical and Gold Pkt
!      policy-map      system-cpp-
policy ! ! ! ! ! ! ! ! ! ! interface
GigabitEthernet0/0
 vrf forwarding Mgmt-vrf
 no ip address
 shutdown
 negotiation auto
!
interface GigabitEthernet3/0/1
 switchport access vlan 10
 switchport mode access
!
interface GigabitEthernet3/0/2
 switchport access vlan 20
 switchport mode access
!
interface GigabitEthernet3/0/3
 switchport access vlan 30
 switchport mode access
```

```
!
interface GigabitEthernet3/0/4
 switchport access vlan 10
!
interface GigabitEthernet3/0/5
!
interface GigabitEthernet3/0/6
!
interface GigabitEthernet3/0/7
!
interface GigabitEthernet3/0/8
!
interface GigabitEthernet3/0/9
!
interface GigabitEthernet3/0/10
!
interface GigabitEthernet3/0/11
!
interface GigabitEthernet3/0/12
!
interface GigabitEthernet3/0/13
!
interface GigabitEthernet3/0/14
!
interface GigabitEthernet3/0/15
!
interface GigabitEthernet3/0/16
!
interface GigabitEthernet3/0/17
!
interface GigabitEthernet3/0/18
!
interface GigabitEthernet3/0/19
!
interface GigabitEthernet3/0/20
!
interface GigabitEthernet3/0/21
!
interface GigabitEthernet3/0/22
!
interface GigabitEthernet3/0/23
!
interface GigabitEthernet3/0/24
!
interface GigabitEthernet3/1/1
!
interface GigabitEthernet3/1/2
!
interface GigabitEthernet3/1/3
!
```

```
interface GigabitEthernet3/1/4
!
interface TenGigabitEthernet3/1/1
!
interface TenGigabitEthernet3/1/2
!
interface TenGigabitEthernet3/1/3
!
interface TenGigabitEthernet3/1/4
!
interface Vlan1
 no ip address
 shutdown
!
interface Vlan10
 ip address 192.168.10.254 255.255.255.0
!
interface Vlan20
 ip address 192.168.20.254 255.255.255.0
!
interface Vlan30
 ip address 192.168.30.254 255.255.255.0
!
ip forward-protocol nd
ip http server
ip http authentication local
ip http secure-server
ip route 0.0.0.0 0.0.0.0 192.168.30.253
!
!
!
!
control-plane
 service-policy input system-cpp-policy
!
!
line con 0
 stopbits 1
line aux 0
 stopbits 1
line vty 0 4
 login
line vty 5 15
 login
!
!
!
!
End
```

SHOW RUN DU ROUTEUR

```
Router#show run
Building configuration...

Current configuration : 1609 bytes
!
! Last configuration change at 09:05:42 UTC Thu Nov 21 2024
! NVRAM config last updated at 09:05:48 UTC Thu Nov 21 2024
! NVRAM config last updated at 09:05:48 UTC Thu Nov 21 2024
version 15.1
service config
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname Router
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
!
no ipv6 cef
ip source-route
ip cef
!
!
!
!
!
multilink bundle-name authenticated
!
!
crypto pki token default removal timeout 0
!
!
license udi pid CISCO2901/K9 sn FCZ160590VF
!
!
!
!
!
!
!
!
!
```

```
interface Embedded-Service-Engine0/0
 no ip address
 shutdown
!
interface GigabitEthernet0/0
 ip address 192.168.30.253 255.255.255.0
 ip nat inside
 ip virtual-reassembly in
 duplex auto
 speed auto
!
interface GigabitEthernet0/1
 ip address 192.168.211.173 255.255.255.0
 ip nat outside
 ip virtual-reassembly in
 duplex auto
 speed auto
!
interface Serial0/0/0
 no ip address
 shutdown
 clock rate 2000000
!
interface Serial0/0/1
 no ip address
 shutdown
 clock rate 2000000
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server
!
ip nat inside source list 1 interface GigabitEthernet0/1 overload
ip route 0.0.0.0 0.0.0.0 192.168.211.254
ip route 192.168.0.0 255.255.0.0 192.168.30.254
!
access-list 1 permit any
!
!
!
control-plane
!
!
!
line con 0
line aux 0
line 2

 no activation-character
 no exec
```

```
 transport preferred none
 transport input all
 transport output pad telnet rlogin lapb-ta mop udptn v120 ssh
 stopbits 1
 line vty 0 4
login
transport input all
!
scheduler allocate 20000 1000
end
```

SHOW RUN DE LA BORNE WIFI

```
ap#show run
Building configuration...

Current configuration : 1962 bytes
!
version 15.3
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
!
hostname ap
!
!
logging rate-limit console 9
enable secret 5 $1$fP9X$jvQQjEUhT.U9pYD5blaQy0
!
no aaa new-model
no ip source-route
no ip cef
!
!
!
!
dot11 pause-time 100
dot11 syslog
!
dot11 ssid wifiA

  vlan 10
  authentication open
  authentication key-management wpa version 2
  mbssid guest-mode
  wpa-psk ascii 7 011112174802091C285F5C

!
!
```

```
! no ipv6 cef ! ! username Cisco password 7
032752180500 ! ! bridge irb ! ! ! interface
Dot11Radio0

 no ip address
 !
 encryption vlan 10 mode ciphers aes-ccm
 !
 ssid wifiA
 !
 antenna gain 0
 mbssid
 channel least-congested 2412 2437 2462
 station-role root

!
interface Dot11Radio0.10
 encapsulation dot1Q 10 native
 bridge-group 1
 bridge-group 1 subscriber-loop-control
 bridge-group 1 spanning-disabled
 bridge-group 1 block-unknown-source
 no bridge-group 1 source-learning
 no bridge-group 1 unicast-flooding
!
interface Dot11Radio1
 no ip address
 shutdown
 antenna gain 0
 peakdetect
 no dfs band block
 channel dfs
 station-role root
 bridge-group 1
 bridge-group 1 subscriber-loop-control
 bridge-group 1 spanning-disabled
 bridge-group 1 block-unknown-source
 no bridge-group 1 source-learning
 no bridge-group 1 unicast-flooding

!
interface GigabitEthernet0
 no ip address
 duplex auto
```

```
 speed auto
!
interface GigabitEthernet0.10
 encapsulation dot1Q 10 native
 bridge-group 1
 bridge-group 1 spanning-disabled
 no bridge-group 1 source-learning
!
interface BVI1
 mac-address 1cdf.0f12.ffe7
 ip address 192.168.10.100 255.255.255.0
 ipv6 address dhcp
 ipv6 address autoconfig
 ipv6 enable
!
ip default-gateway 192.168.10.254
ip forward-protocol nd
ip http server
no ip http secure-server
ip http help-path http://www.cisco.com/warp/public/779/smbiz/prodconfig/help/eag
!
!
bridge 1 route ip
!
!
!
line con 0
line vty 0 4

 login local
 transport input all
!
end
```