

Autres systèmes réseau

Procédures pour les autres OS réseau

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Commandes de base

MikroTik

Commandes principales

Navigation

Nom de la commande dans l'arborescence	Description
[admin@MikroTik] ip address>.. [admin@MikroTik] ip>	La commande « .. » permet de revenir au niveau inférieur.
[admin@MikroTik] ip address> / [admin@MikroTik] >	La commande « / » permet de revenir à la racine peu importe le niveau où le prompt se trouve.

Gestion de la configuration

Nom de la commande dans l'arborescence	Description
[admin@MikroTik] system backup> save name=test	Sauvegarder la configuration sous le nom test
[admin@MikroTik] > system backup load name=test Restore and reboot? [y/N]: y	Restaurer la configuration au redémarrage du matériel.
[admin@MikroTik] > system reset-configuration	Effectue un hard reset du matériel (toutes les configurations seront perdu.)
[admin@MikroTik] > system reboot	Redémarrer le matériel

Commandes de visualisation

Nom de la commande dans l'arborescence	Description
[admin@MikroTik] > file print	Afficher les fichiers stockés sur le matériel
[admin@MikroTik] > ip address print	Afficher les adresses IP affectées aux différentes interfaces
[admin@PB-Router] ip route> print	Afficher la table de routage sur un routeur
[admin@MikroTik] > interface print	Afficher les différentes interfaces présentes (Physiques / virtuelles)
[admin@MikroTik] ip arp> print	Afficher la table arp
[admin@MikroTik] interface ethernet> print detail	Afficher les détails d'une interface.

[admin@MikroTik] interface ethernet> monitor ether1,ether2	Permet le monitoring d'interfaces (Détection des liens / vitesse etc...)
[admin@MikroTik] system console> print	Afficher les différentes consoles
[admin@MikroTik] system package> print	Afficher les différents packages
[admin@office2]> ping 192.168.1.1	Effectue un ping vers la destination spécifiée.
[admin@office2]> ping 8.8.8.8 src-address=192.168.10.254	Permet d'émuler un ping provenant d'une adresse source (sur le réseau local par exemple) vers une adresse de destination (sur Internet)

Commandes de modification

Nom de la commande dans l'arborescence	Description
[admin@MikroTik] system package> uninstall security [admin@MikroTik] system package> enable ipv6 [admin@MikroTik] > reboot	Exemple de gestion des package : désinstallation du package "Security", Installation du package "ipv6", redémarrage du matériel pour prendre en compte les modifications.
[admin@MikroTik] > interface enable ether1	Activer une interface, dans le cas présent : Activation de l'interface ether 1
[admin@MikroTik] ip address> add address=10.10.10.1/24 interface=ether2	1ère commande : affecter l'adresse 10.10.10.1 et le masque 255.255.255.0 à l'interface nommée "ether2"
[admin@MikroTik] ip route> add dst-address=10.1.12.0/24 gateway=192.168.0.253	Ajouter une route statique vers un réseau (illustration avec le réseau 10.1.12.0/24)
[admin@MikroTik] ip route> add gateway=10.5.8.1	Ajouter une passerelle (10.5.8.1) pour la route par défaut (0.0.0.0)

Vlan

Nom de la commande dans l'arborescence	Description
[admin@MikroTik] interface vlan> add name=test vlan-id=1 interface=ether1	Ajouter le VLAN 1 nommé test sur l'interface ether 1
[admin@MikroTik] interface vlan> print	Afficher les différents VLAN
[admin@MikroTik] ip address> add address=10.10.10.1/24 interface=test	Ajouter une adresse IP à une interface virtuelle de VLAN (sous-interface par rapport à l'interface physique.

Services

DHCP

Etape	Nom de la commande dans l'arborescence	Description
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1	[admin@MikroTik] > ip pool add name=dhcp-pool ranges=192.168.1.1-192.168.1.100	Créer une plage d'adresses distribuée par le serveur DHCP : de 192.168.1.1 à 192.168.1.100
2	[admin@MikroTik] > ip dhcp-server network add address=192.168.1.0/24 gateway=192.168.1.254 \ dns-server=159.148.147.194,159.148.60.20	Ajouter la passerelle par défaut et les adresse vers les DNS primaire et secondaires sur dans la plage DHCP configurée précédemment.
3	[admin@MikroTik] > ip dhcp-server add interface=wlan1 address-pool=dhcp-pool	Spécification de l'interface sur laquelle le serveur DHCP doit travailler et de la plage d'adresses IP distribuée.
[admin@MikroTik] ip dhcp-server lease> print		Afficher les adresses IP attribuées par le serveur DHCP.

Monitoring (Graphiques)

Nom de la commande dans l'arborescence	Description
[admin@MikroTik] tool graphing interface> add interface=ether1	Cette commande active les graphiques pour l'interface ether 1
[admin@MikroTik] tool graphing resource> add allow-address=192.168.0.0/24	Cette option affichera le graphique uniquement pour le réseau 192.168.0.0 /24

Mises à jour & Mises à niveau

Nom de la commande dans l'arborescence	Description
[admin@MikroTik] > /system package update check-for-updates	Vérifie les mises à jour de paquets
[admin@MikroTik] > /system package update install	Installe les mises à jour de paquets et redémarre automatiquement à la fin
[admin@MikroTik] > /system routerboard print	Affiche si un mise à jour est disponible pour le firmware de la cart-mère
[admin@MikroTik] > /system routerboard upgrade	Effectue la mise à niveau du firmware de la carte-mère
[admin@MikroTik] > /interface lte firmware-upgrade lte1	Affiche si un mise à jour est disponible pour le firmware de la carte LTE lte1
[admin@MikroTik] > /interface lte firmware-upgrade lte1 upgrade=yes	Effectue la mise à niveau du firmware de la carte LTE lte1

Bonus

L'administration est aussi possible via les logiciels **The Dude** et **Winbox**

Configuration de base VyOS

Brouillon

VyOS est un OS de routeur virtuel à placer dans une VM ou sur une petite 1u

Le lien de téléchargement de Vynos :

<https://downloads.vyos.io/?dir=rolling/current/amd64>

Configuration minimale

```
conf
set interfaces ethernet eth0 description WAN
set interfaces ethernet eth0 address dhcp
set interfaces ethernet eth1 description LAN
set interfaces ethernet eth1 address 192.168.2.1/24

set service dhcp-server shared-network-name dhcpproc authoritative
set service dhcp-server shared-network-name subnet 192.168.2.0/24 default-router 192.168.2.1
set service dhcp-server shared-network-name subnet 192.168.2.0/24 dns-server 192.168.2.1
set service dhcp-server shared-network-name subnet 192.168.2.0/24 range 0 start 192.168.2.10
set service dhcp-server shared-network-name subnet 192.168.2.0/24 range 0 stop 192.168.2.200

set nat source rule 99 description LAN2WAN
set nat source rule 99 outbound-interface eth0
set nat source rule 99 source address 192.168.2.0/24
set nat source rule 99 translation address masquerade

commit
save
```

Configuration simple

```
sudo dpkg-reconfigure keyboard-configuration # Tant qu'a faire, autant mettre le clavier en français...
conf

set interfaces ethernet eth0 address '192.168.1.253/24'
set interfaces ethernet eth0 description 'WAN'
set interfaces ethernet eth1 address '192.168.2.1/24'
set interfaces ethernet eth1 description 'LAN'

set nat source rule 100 outbound-interface 'eth0'
set nat source rule 100 source address '192.168.2.0/24'
set nat source rule 100 translation address 'masquerade'

set service dhcp-server disabled 'false'
set service dhcp-server shared-network-name LAN authoritative 'disable'
set service dhcp-server shared-network-name LAN subnet 192.168.2.0/24 default-router '192.168.2.1'
set service dhcp-server shared-network-name LAN subnet 192.168.2.0/24 dns-server '192.168.2.1'
set service dhcp-server shared-network-name LAN subnet 192.168.2.0/24 domain-name 'lan-interne'
set service dhcp-server shared-network-name LAN subnet 192.168.2.0/24 lease '86400'
set service dhcp-server shared-network-name LAN subnet 192.168.2.0/24 start 192.168.2.128 stop
'192.168.2.255'
set service dns forwarding cache-size '0'
set service dns forwarding listen-on 'eth1'
set service dns forwarding name-server '9.9.9.9'
set service dns forwarding name-server '1.1.1.1'
set service snmp community public authorization 'ro'
set service snmp community public network '192.168.2.0/24'
set service snmp community public network '192.168.1.0/24'
set service snmp contact 'Somebody <someone@somewhe.re>'
set service snmp listen-address 0.0.0.0 port '161'
set service snmp location 'Some hypervisor'
set service ssh port '22'

set system gateway-address '192.168.1.1'
set system host-name 'routeur-NAT'
set system login user vyos authentication plaintext-password 'un mot de passe, pour changer...'
set system login user vyos level 'admin'
set system ntp server '0.pool.ntp.org'
set system ntp server '1.pool.ntp.org'
set system ntp server '2.pool.ntp.org'
set system time-zone 'Europe/Paris'
```

```
set firewall all-ping 'enable'
set firewall broadcast-ping 'disable'
set firewall receive-redirects 'disable'
set firewall send-redirects 'enable'
set firewall source-validation 'disable'
set firewall syn-cookies 'enable'
set firewall twa-hazards-protection 'disable'
```

On crée une règle pour autoriser les connexions http https et ssh a arriver depuis le WAN

```
set firewall name OUTSIDE-IN default-action 'drop'
set firewall name OUTSIDE-IN rule 10 action 'accept'
set firewall name OUTSIDE-IN rule 10 state established 'enable'
set firewall name OUTSIDE-IN rule 10 state related 'enable'
set firewall name OUTSIDE-IN rule 20 action 'accept'
set firewall name OUTSIDE-IN rule 20 destination port '80'
set firewall name OUTSIDE-IN rule 20 protocol 'tcp'
set firewall name OUTSIDE-IN rule 20 state new 'enable'
set firewall name OUTSIDE-IN rule 21 action 'accept'
set firewall name OUTSIDE-IN rule 21 destination port '443'
set firewall name OUTSIDE-IN rule 21 protocol 'tcp'
set firewall name OUTSIDE-IN rule 21 state new 'enable'
set firewall name OUTSIDE-IN rule 22 action 'accept'
set firewall name OUTSIDE-IN rule 22 destination port '22'
set firewall name OUTSIDE-IN rule 22 protocol 'tcp'
set firewall name OUTSIDE-IN rule 22 state new 'enable'
```

On crée une règle pour autoriser les connexions déjà établies ainsi que ping ntp et ssh a se connecter au routeur

```
set firewall name OUTSIDE-LOCAL default-action 'drop'
set firewall name OUTSIDE-LOCAL rule 10 action 'accept'
set firewall name OUTSIDE-LOCAL rule 10 state established 'enable'
set firewall name OUTSIDE-LOCAL rule 10 state related 'enable'
set firewall name OUTSIDE-LOCAL rule 20 action 'accept'
set firewall name OUTSIDE-LOCAL rule 20 icmp type-name 'echo-request'
set firewall name OUTSIDE-LOCAL rule 20 protocol 'icmp'
set firewall name OUTSIDE-LOCAL rule 20 state new 'enable'
set firewall name OUTSIDE-LOCAL rule 30 action 'drop'
set firewall name OUTSIDE-LOCAL rule 30 destination port '22'
set firewall name OUTSIDE-LOCAL rule 30 protocol 'tcp'
set firewall name OUTSIDE-LOCAL rule 30 recent count '4'
```



```
set firewall name OUTSIDE-LOCAL rule 30 recent time '60'
set firewall name OUTSIDE-LOCAL rule 30 state new 'enable'
set firewall name OUTSIDE-LOCAL rule 31 action 'accept'
set firewall name OUTSIDE-LOCAL rule 31 destination port '22'
set firewall name OUTSIDE-LOCAL rule 31 protocol 'tcp'
set firewall name OUTSIDE-LOCAL rule 31 state new 'enable'
set firewall name OUTSIDE-LOCAL rule 40 action 'accept'
set firewall name OUTSIDE-LOCAL rule 40 destination port '161'
set firewall name OUTSIDE-LOCAL rule 40 protocol 'udp'
set firewall name OUTSIDE-LOCAL rule 40 state new 'enable'

set interfaces ethernet eth0 firewall in name 'OUTSIDE-IN'
set interfaces ethernet eth0 firewall local name 'OUTSIDE-LOCAL'

commit
save
```

Script de sauvegarde de configuration

```
#!/bin/vbash
source /opt/vyatta/etc/functions/script-template

run show configuration commands > $HOME/$(date +%Y%m%d)-$(hostname)-vyos.conf.txt
```

Aruba

A été utilisé un Aruba S2500-24p-4x10g

Aruba

Hard Reset

Au niveau de l'écran LCD

- Allez dans le menu Maintenance et sélectionnez "Factory Default"
- Effectuer via le menu le reboot du switch

Information de login par défaut

admin/admin123

Aruba

Perte du mot passe admin

En console

Utilisateur: mot de passe

Mot de passe: forgetme!

(Aruba) > activer

Mot de passe: activer

(Aruba) #configure terminal entrez les commandes de configuration, une par ligne. Fin avec CNTL/Z

Aruba) (config) #mgmt-User Admin mot de passe root: < new admin password >

Re-tapez mot de passe: < new admin password >

(Aruba) (config) #exit

(Aruba) #exit

(Aruba) > Exit

Utilisateur: admin

Mot de passe: < new admin password >

(Aruba) > activer

Mot de passe: activer

(Aruba) #configure terminal entrez les commandes de configuration, une par ligne. Fin avec CNTL/Z

(Aruba) (config) #enable secret

Mot de passe: < new enable password >

Re-tapez mot de passe: < new enable password >

(Aruba) (config) #write mémoire

Initialisation & configuration basique

Notes pré installation :

Les câbles console de chez Cisco fonctionne très bien.

Baud Rate	Data Bits	Parity	Stop Bits	Flow Control
9600	8	None	1	Off

Configuration via GUI quick config

The screenshot shows the Aruba GUI Quick Config wizard. The left sidebar indicates the workflow: 1 Basic Info (active), 2 Management, and 3 Finish. The main area is titled 'Basic Information for the Device' and includes a 'Time remaining to complete the quick setup wizard: 00:06:09' timer. The form fields are as follows:

- Name:** ArubaS2500-24P
- Country Code:** FR-France
- Password for user "admin":** 6-32 characters (masked with dots)
- Retype:** (masked with dots)
- Password for Enable Mode:** 6-15 characters (masked with dots)
- Retype:** (masked with dots)
- Tunneled Server IP Address :** (empty field)
- Date & Time:**
 - ☐ Get time from NTP Server
 - ☒ Set time manually
 - Date :** May 21 2020
 - Time :** 18 : 40 : 00
 - Timezone:** GMT +02:00 PM(d)

At the bottom right, there are 'Next' and 'Cancel' buttons.

Workflow

Help

Management

You can specify the following management interface options for your device.

- VLAN:** Specify the VLAN ID for this device.
- IP Address Configuration:** Select the source of IP address for this device. You can assign static IP address or assign IP address using a DHCP server. To assign **Static IP**, enter the following details:
 - IP Address:** Enter the static IP address. This device supports IPv4 and IPv6 address types.
 - Netmask:** Specify the netmask IP address for your IP address.
 - DNS:** Specify the DNS server for the device.
 - Default Gateway:** Specify the default gateway IP address for this device.
- Select **DHCP** to use IP address assigned by your DHCP server.

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E-mail Support

Device IP Address for ArubaS2500-24P

Specify switch management options. [More...](#)

Inband management VLAN interface:

VLAN: 1

All Ports:

Upstream Ports:

GE-0/0/0

GE-0/0/1

GE-0/0/2

GE-0/0/3

GE-0/0/4

GE-0/0/5

GE-0/0/6

GE-0/0/7

GE-0/0/8

GE-0/0/9

IP address assignment:

Static

DHCP

IP Address :

192.168.1.201

Net Mask :

255.255.255.0

Default Gateway :

192.168.1.1

Out of band management interface:

IP Address :

Net Mask :

Configure Airwave Management(AMP) Parameters:

Back

Next

Cancel

La mise en page sous IE est étrange, mais l'important est de pouvoir la valider la configuration basique.

Ready to Push Configuration to ArubaS2500-24P

The settings you have specified are summarized below. [More...](#)

Device Setup Summary

18:43:37,Thu May 21 2020

aruba

Basic Info

Name: ArubaS2500-24P

Country Code: FR-France

Date: 2020 May 21

Time: 18 40 0(hr min sec)

TimeZone: GMT +02:00 FRA

Management

VLAN: 1

Upstream Ports : GE-0/0/0,GE-0/0/1,GE-0/0/2,GE-0/0/3,GE-0/0/4,GE-0/0/5,GE-0/0/6,GE-0/0/7,GE-0/0/8,GE-0/0/9,GE-0/0/10,GE-0/0/11,GE-0/0/12,GE-0/0/13,GE-0/0/14,GE-0/0/15,GE-0/0/16,GE-0/0/17,GE-0/0/18,GE-0/0/19,GE-0/0/20,GE-0/0/21

IP address assignment: Static

IP Address : 192.168.1.201

Net Mask : 255.255.255.0

Default Gateway : 192.168.1.1

To display the summary information in a separate window so you can print or save it , [click here](#)

➡ To complete the wizard and apply the settings you have specified,click the **Finish** button below.

NOTE: When you click **Finish**, your Ethernet connection will go away if DHCP is not configured on this VLAN.

Back

Finish

Cancel

Casser le staking présent par défaut

(ArubaS2500-24P) (config) # **show interface brief**

Interface Admin Link Line Protocol Speed/Duplex

GE0/0/0 Enable Up Up 1 Gbps / Full
GE0/0/1 Enable Down Down N/A
GE0/0/2 Enable Up Up 100 Mbps / Full
GE0/0/3 Enable Down Down N/A
GE0/0/4 Enable Up Up 100 Mbps / Full
GE0/0/5 Enable Down Down N/A
GE0/0/6 Enable Up Up 100 Mbps / Full
GE0/0/7 Enable Down Down N/A
GE0/0/8 Enable Up Up 100 Mbps / Full
GE0/0/9 Enable Down Down N/A
GE0/0/10 Enable Down Down N/A
GE0/0/11 Enable Down Down N/A
GE0/0/12 Enable Down Down N/A
GE0/0/13 Enable Down Down N/A
GE0/0/14 Enable Down Down N/A
GE0/0/15 Enable Down Down N/A
GE0/0/16 Enable Down Down N/A
GE0/0/17 Enable Down Down N/A
GE0/0/18 Enable Down Down N/A
GE0/0/19 Enable Down Down N/A
GE0/0/20 Enable Down Down N/A
GE0/0/21 Enable Down Down N/A
GE0/0/22 Enable Down Down N/A
GE0/0/23 Enable Down Down N/A
GE0/1/0 Enable Down Down N/A
GE0/1/1 Enable Down Down N/A
MGMT Enable Down Down N/A

(ArubaS2500-24P) (config) # **show stacking interface**

stack1/2

stack1/2 is administratively Enabled, link is Down, line protocol is Down
Speed: N/A, MTU: 9224 bytes, Link flaps: 0
Last update of counters: 0d 00:00:00 ago
Last clearing of counters: 0d 00:00:00 ago
Link status last changed: 0d 00:00:00 ago
Statistics:

Received 0 frames, 0 octets
0 pps, 0 bps
0 broadcasts, 0 runts, 0 giants, 0 throttles
0 error octets, 0 CRC frames
0 multicast, 0 unicast
Transmitted 0 frames, 0 octets
0 pps, 0 bps
0 broadcasts, 0 throttles
0 multicast, 0 unicast
0 errors octets, 0 deferred
0 collisions, 0 late collisions

stack1/3

stack1/3 is administratively Enabled, link is Down, line protocol is Down

Speed: N/A, MTU: 9224 bytes, Link flaps: 0

Last update of counters: 0d 00:00:00 ago

Last clearing of counters: 0d 00:00:00 ago

Link status last changed: 0d 08:13:09 ago

Statistics:

Received 0 frames, 0 octets
0 pps, 0 bps
0 broadcasts, 0 runts, 0 giants, 0 throttles
0 error octets, 0 CRC frames
0 multicast, 0 unicast
Transmitted 0 frames, 0 octets
0 pps, 0 bps
0 broadcasts, 0 throttles
0 multicast, 0 unicast
0 errors octets, 0 deferred
0 collisions, 0 late collisions

(ArubaS2500-24P) (config) # delete stacking interface stack 1/2

(ArubaS2500-24P) (config) # delete stacking interface stack 1/3

(ArubaS2500-24P) (config) #show interface brief

Interface Admin Link Line Protocol Speed/Duplex

GE0/0/0 Enable Up Up 1 Gbps / Full

GE0/0/1 Enable Down Down N/A

GE0/0/2 Enable Up Up 100 Mbps / Full

GE0/0/3 Enable Down Down N/A

GE0/0/4 Enable Up Up 100 Mbps / Full

GE0/0/5 Enable Down Down N/A

GE0/0/6 Enable Up Up 100 Mbps / Full
GE0/0/7 Enable Down Down N/A
GE0/0/8 Enable Up Up 100 Mbps / Full
GE0/0/9 Enable Down Down N/A
GE0/0/10 Enable Down Down N/A
GE0/0/11 Enable Down Down N/A
GE0/0/12 Enable Down Down N/A
GE0/0/13 Enable Down Down N/A
GE0/0/14 Enable Down Down N/A
GE0/0/15 Enable Down Down N/A
GE0/0/16 Enable Down Down N/A
GE0/0/17 Enable Down Down N/A
GE0/0/18 Enable Down Down N/A
GE0/0/19 Enable Down Down N/A
GE0/0/20 Enable Down Down N/A
GE0/0/21 Enable Down Down N/A
GE0/0/22 Enable Down Down N/A
GE0/0/23 Enable Down Down N/A
GE0/1/0 Enable Down Down N/A
GE0/1/1 Enable Down Down N/A
GE0/1/2 Enable Down Down N/A
GE0/1/3 Enable Down Down N/A
MGMT Enable Down Down N/A

Ajout d'un utilisateur

(ArubaS2500-24P) (config) **#mgmt-user ?**

<username> Name of the user (maximum 16 characters).
localauth-disable Disable Local authentication event if RADIUS authentication timeout.
password-recovery-dis.. Disable recovery login
ssh-pubkey SSH login of management users by public key authentication
webui-cacert CA Certificate used to sign management user's certificate

(ArubaS2500-24P) (config) **#mgmt-user nida ?**

<rolename> Role name from one of the following:
root - super user role
guest-provisioning - guest provisioning role
network-operations - Network operator role

read-only - Read only role
location-api-mgmt - Location API Management Role

(ArubaS2500-24P) (config) **#mgmt-user nida root**
Password:*****
Re-Type password:*****

(ArubaS2500-24P) (config) **#show mgmt-user**

Management User Table

USER PASSWD ROLE STATUS

admin ***** root ACTIVE
nida ***** root ACTIVE

Jumbo Frames

(ArubaS2500-24P) (config) **#show interface gigabitethernet 0/0/0**

GE0/0/0 is administratively Up, Link is Up, Line protocol is Up
Hardware is Gigabit Ethernet, Interface is GE0/0/0, Address is
00:0b:86:aa:a6:c2
Encapsulation ARPA, Loopback not set
Configured: duplex (Auto), Speed (Auto), FC (Off), Autoneg (On)
Negotiated: duplex (Full), Speed (1 Gbps)
Interface index: 1

MTU 1514 bytes

(ArubaS2500-24P) (config) **#interface gigabitethernet 0/0/0**

(ArubaS2500-24P) (gigabitethernet "0/0/0") **#mtu ?**

<mtu> Set MTU on interface between 64 and 9216

(ArubaS2500-24P) (gigabitethernet "0/0/0") **#mtu 9216**

(ArubaS2500-24P) (config) **#show interface gigabitethernet 0/0/0**

GE0/0/0 is administratively Up, Link is Up, Line protocol is Up
Hardware is Gigabit Ethernet, Interface is GE0/0/0, Address is
00:0b:86:aa:a6:c2
Encapsulation ARPA, Loopback not set
Configured: duplex (Auto), Speed (Auto), FC (Off), Autoneg (On)

Negotiated: duplex (Full), Speed (1 Gbps)

Interface index: 1

MTU 9216 bytes

Configuration SNMP v2

(ArubaS2500-24P) (config) **#show snmp community**

SNMP COMMUNITIES

COMMUNITY ACCESS VERSION

Zer0t0uchpr0visi0ning READ_ONLY V1, V2C

(ArubaS2500-24P) (config) **#hostname** *ArubaS2500-24P*

(ArubaS2500-24P) (config) **#syscontact** *monitoring*

(ArubaS2500-24P) (config) **#syslocation** *France*

(ArubaS2500-24P) (config) **#snmp-server community** *public*

(ArubaS2500-24P) (config) **#snmp-server enable trap**

**(ArubaS2500-24P) (config) #snmp-server host 192.168.1.205
community public**

(ArubaS2500-24P) (config) **#snmp-server engine-id ?**

<engineid> Engine ID of SNMP server in HEX (10-64 chars) eg.

800039e703000b86112233

(ArubaS2500-24P) (config) **#snmp-server engine-id**

800039e703000b86112233

Configuration SNMP v3

vLAN & DHCP

Création d'un vLan

```
(ArubaS2500-24P) (VLAN "4") #vlan 10
(ArubaS2500-24P) (VLAN "10") #description lab
(ArubaS2500-24P) (VLAN "10") #exit
```

Attribution d'une IP

```
(ArubaS2500-24P) (vlan "10") #ip address 172.16.255.250 255.255.0.0
(ArubaS2500-24P) (vlan "10") #mtu 1500
(ArubaS2500-24P) (vlan "10") #exit
```

Configuration du switching-profile pour le vLAN

```
(ArubaS2500-24P) (config) #interface-profile switching-profile vlan10-sw
(ArubaS2500-24P) (switching profile "vlan10-sw") #switchport-mode access
(ArubaS2500-24P) (switching profile "vlan10-sw") #access-vlan 10
(ArubaS2500-24P) (switching profile "vlan10-sw") #native-vlan 10
(ArubaS2500-24P) (switching profile "vlan10-sw") #exit
```

Application du vLAN à un port

```
(ArubaS2500-24P) (config) #interface gigabitethernet 0/0/0
(ArubaS2500-24P) (gigabitethernet "0/0/8") #switching-profile vlan10-sw
(ArubaS2500-24P) (gigabitethernet "0/0/8") #exit
```

Application du vLAN à un groupe de ports

```
(ArubaS2500-24P) (config) #interface-group gigabitethernet vlan10-grp
(ArubaS2500-24P) (gigabitethernet "vlan10") #apply-to 0/0/0-0/0/3
(ArubaS2500-24P) (gigabitethernet "vlan10") #trusted port
(ArubaS2500-24P) (gigabitethernet "vlan10") #no shutdown
(ArubaS2500-24P) (gigabitethernet "vlan10") #switching-profile vlan10
(ArubaS2500-24P) (gigabitethernet "vlan10") #exit
(ArubaS2500-24P) (config) #exit
(ArubaS2500-24P) #write memory
```

Ajout ou suppression d'interface à un vLAN

(ArubaS2500-24P) (gigabitethernet "vlan10") #apply-to [add | remove] <interface-list>

DHCP

(ArubaS2500-24P) (config) #ip dhcp pool vlan10-pool

(ArubaS2500-24P) (dhcp server profile "vlan10-pool") #

(ArubaS2500-24P) (dhcp server profile "vlan10-pool") #?

clone	Copy data from another dhcp server profile
default-router	DHCP default router in A.B.C.D format
dns-server	DNS servers in A.B.C.D format
domain-name	Specify domain name
exclude-address	Configure exclude address
hardware-address	MAC address of the device
lease	DHCP server pool lease time (Default: 12 hours)
netbios-name-server	Configure netbios name servers in A.B.C.D format
network	DHCP server network pool
no	Delete Command
option	Configure server option
vendor-class-identifi..	Configure vendor-class-identifier (Default: ArubaAP)