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07-10-2014, 15:20

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**Cloud Router Switch Configuration Bonding Trunking LACP**

Cloud Router Switch Configuration, Interoperability with RouterBOARD and HP ProCurve Networking

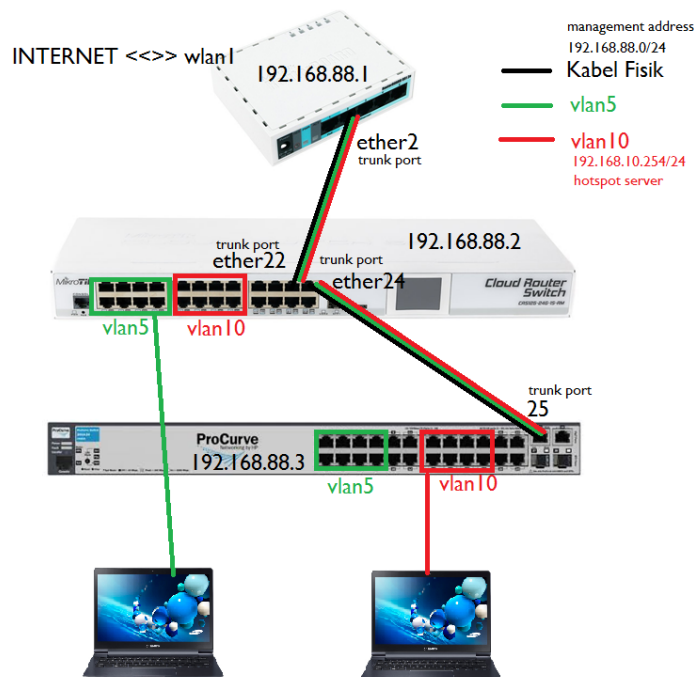
This time imxpert.co will discuss the configuration of Cloud Router Switch (CRS), which is MikroTik's new product lineup, which in my opinion is the cheapest 3 gigabit layer switches in the world at the moment: th\_shiny\_smile:

I have received e-mails and Private messages several times in chat about VLAN and Trunking configurations in CRS and many are confused because the incorrect configuration causes high CPU load and poor network throughput.

In this case, RB951-2n is used as a router, CRS125-24G-1S-RM and HP ProCurve 2610-24. The scenario that will be created is, will be created 2 VLAN ID (VLAN5 and VLAN10) both of these vlan will be given a different IP segment, then in VLAN10 the server hotspot will be run. RB951-2n acts as a gateway for each vlan.

Before entering configuration, the video below shows that the LACP bonding configuration, and the trunking port have been running well.

## Topology 1 - without port channel



## Configuration RB951-2n

Code:

```
# [reza@imxpert.co RB951-2n]
# sep / 10/2014 19:17:42 by RouterOS 6.19
# software id = S93G-KFJL
#
/ ethernet interface
set [find default-name = ether2] comment = "TO CRS" name = ether2-switch

/ vlan interface
add interface = ether2-switch l2mtu = 1594 name = vlan05 vlan-id = 5
add interface = ether2-switch l2mtu = 1594 name = vlan10 vlan-id = 10

/ wireless interface
set [find default-name = wlan1] band = 2ghz-b / g / n comment = "TO INTERNET" \
disabled = no frequency = 2462 l2mtu = 2290 name = wlan1-internet \
security-profile = IMXpert ssid = IMXpert

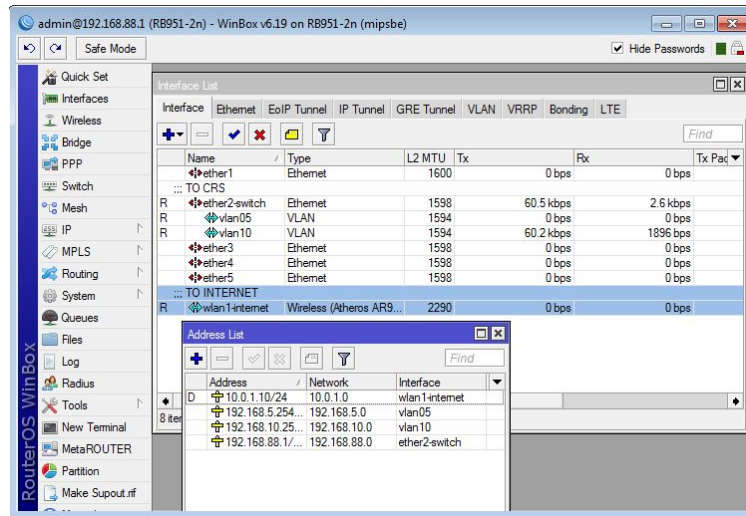
/ ip hotspot profile
add dns-name = hotspot.imxpert.co hotspot-address = 192.168.10.254 name = hsprof1 \
smtp-server = 15.118.24.152

/ ip pool
add name = dhcp_pool1 ranges = 192.168.5.1-192.168.5.250
add name = hs-pool-9 ranges = 192.168.10.1-192.168.10.200
/ ip dhcp-server
add address-pool = dhcp_pool1 disabled = no interface = vlan05 lease-time = 10m name =
```

```

dhcp1
add address-pool = hs-pool-9 disabled = no interface = vlan10 lease-time = 1h name = \
dhcp2
/ in hotspot

```



## Configuring CRS125-24G-1S-RM

Code:

```

set [find default-name = ether20] master-port = ether22-router
set [find default-name = ether21] master-port = ether22-router

/ egress-vlan-tag ethernet switch interface
add tagged-ports = ether22-router, ether24-switch vlan-id = 5
add tagged-ports = ether22-router, ether24-switch vlan-id = 10

/ Ethernet switch switch Ingress-VLAN-translation
add customer-vlan-format = untagged-or-tagged new-customer-vid = 5 ports = \
ether1, ether2, ether3, ether4, ether5, ether6, ether7, ether8 sa-learning = yes \
service-vlan-format = untagged-or-tagged
add customer-vlan-format = untagged-or-tagged new-customer-vid = 10 ports = \
ether8, ether9, ether10, ether11, ether12, ether13, ether14, ether15, ether16
sa-learning = yes service-vlan-format = untagged-or-tagged

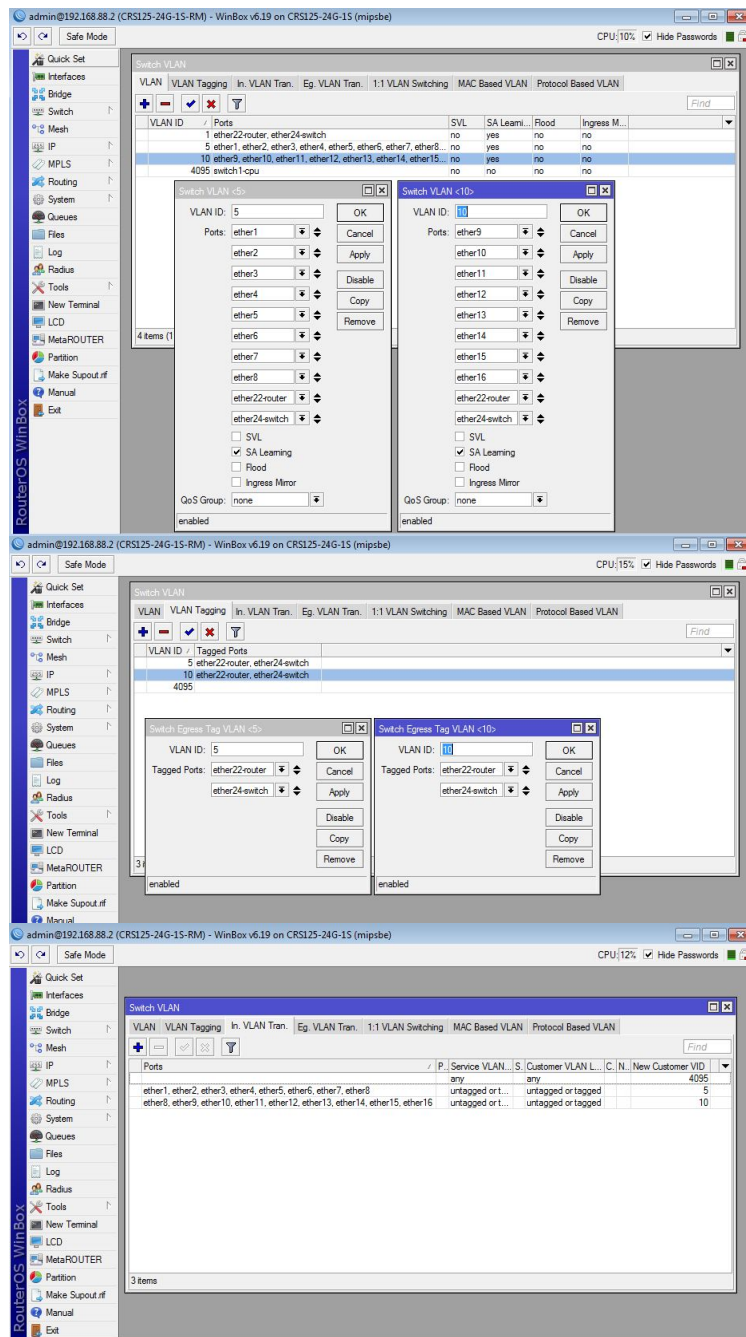
/ vlan switch Ethernet interface
add ports = ether22-router, ether24-switch vlan-id = 1
add ports = "ether1, ether2, ether3, ether4, ether5, ether6, ether7, ether8, ether22-
ter, ether24-switch "vlan-id = 5
add ports = "ether9, ether10, ether11, ether12, ether13, ether14, ether15, ether16, e
r22-router, ether24-switch "vlan-id = 10

/ ip address
add address = 192.168.88.2 / 24 interface = ether22-router network = 192.168.88.0

/ ip route
add distance = 1 gateway = 192.168.88.1

/ system identity

```



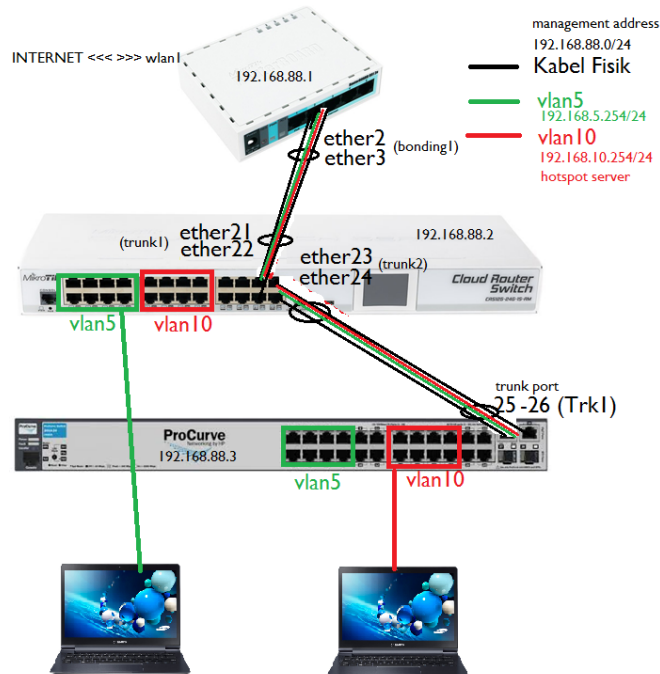
## Configuring HP ProCurve 2610-24 ;

Code:

```
reza@imxpert.co
; J9085A Configuration Editor; Created on release # R.11.25
hostname "ProCurve 2610-24"
default-gateway ip 192.168.88.1
snmp-server community "public" Unrestricted
vlan 1
  name "DEFAULT VLAN"
  untagged 9-12,21-28
  ip address 192.168.88.3 255.255.255.0
  no untagged 1-8,13-20
  exit
vlan 5
  name "VLAN5"
  untagged 1-8
  tagged 25
  exit
vlan 10
  name "VLAN10"
  untagged 13-20
  tagged 25
  exit
```

## Topology 2- with Trunk / LAG

In topology 2, we do port trunking (the same term for Bonding, LAG, or Port channel, etherchannel) which functions as a link redundancy and increases / combines bandwidth from the connected physical ports.



The following is the configuration:

## RB951-2n configuration (with Bonding Interface)

Code:

```
# [reza@imxpert.co RB951-2n]
# 02/1970 01:36:21 by RouterOS 6.19
# software id = 593G-KFJL

/ ethernet interface
set [find default-name = ether2] comment = "TO CRS PORT 21" name = ether2-switch
set [find default-name = ether3] comment = "TO CRS PORT 22" name = ether3-switch

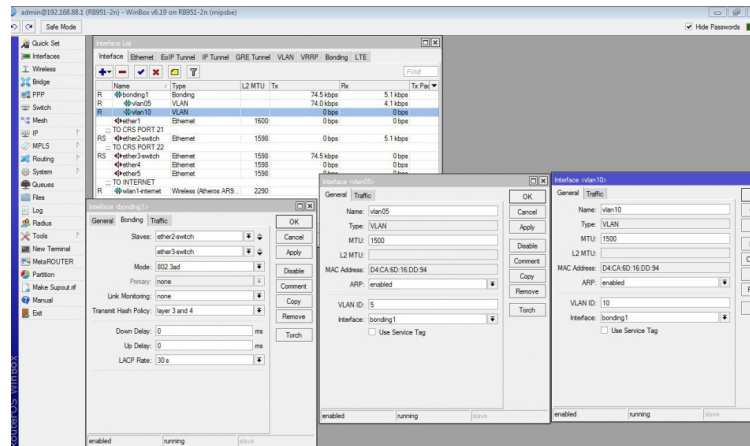
/ interface bonding
add link-monitoring = none mode = 802.3ad name = bonding1 slaves = \
    ether2-switch, ether3-switch transmits -hash-policy = layer-3-and-4

/ vlan interface
add interface = bonding1 name = vlan05 vlan-id = 5
add interface = bonding1 name = vlan10 vlan-id = 10

/ wireless interface
set [find default-name = wlan1] band = 2ghz-b / g / n comment = "TO INTERNET" \
    disabled = no frequency = 2462 l2mtu = 2290 name = wlan1-internet \
    security-profile = IMXpert ssid = IMXpert

/ ip hotspot profile
add dns-name = hotspot.imxpert.co hotspot-address = 192.168.10.254 name = hsprof1 \
    smtp-server = 15.118.24.152

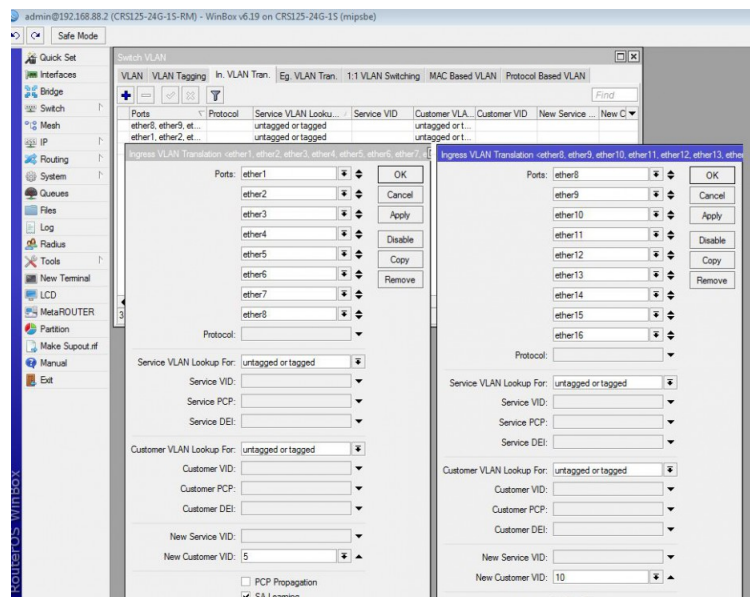
/ ip pool
add name = dhcp_pool1 ranges = 192.168.5.1-192.168.5.250
add name = hs-pool-9 ranges = 192.168.10.1-192.168.10.200
```



## CRS125-24G-1S-RM (with Port Trunking) configuration

Code:

```
# [reza@imxpert.co CRS125-24G-1S-RM]
# sep / 10/2014 19:17:42 by RouterOS 6.19
# software id = BNUD-GT8J
#
/ Ethernet interface
set [find default-name = ether22] name = ether22-router-port3
set [find default-name = ether23] master-port = ether22-router-port3 name = \
ether23-procurve-port25
set [find default-name = ether24] master-port = ether22-router-port3 name = \
ether24-procurve-port26
set [find default-name = sfp1] master-port = ether22-router-port3
set [find default-name = ether1] master-port = ether22-router-port3
set [find default-name = ether2] master-port = ether22-router-port3
set [find default-name = ether3] master-port = ether22-router-port3
set [find default-name = ether4] master-port = ether22-router-port3
set [find default-name = ether5] master-port = ether22-router-port3
set [find default-name = ether6] master-port = ether22-router-port3
set [find default-name = ether7] master-port = ether22-router-port3
set [find default-name = ether8] master-port = ether22-router-port3
set [find default-name = ether9] master-port = ether22-router-port3
set [find default-name = ether10] master-port = ether22-router-port3
set [find default-name = ether11] master-port = ether22-router-port3
set [find default-name = ether12] master-port = ether22-router-port3
set [find default-name = ether13] master-port = ether22-router-port3
set [find default-name = ether14] master-port = ether22-router-port3
set [find default-name = ether15] master-port = ether22-router-port3
set [find default-name = ether16] master-port = ether22-router-port3
set [find default-name = ether17] master-port = ether22-router-port3
set [find default-name = ether18] master-port = ether22-router-port3
```



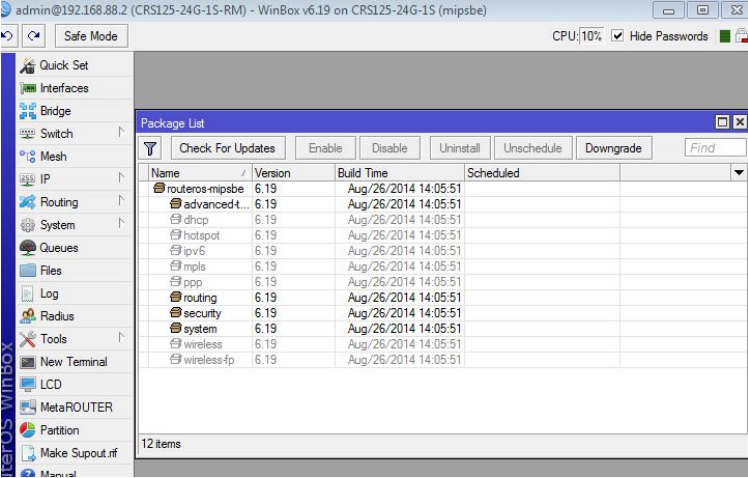
## Configure HP ProCurve 2610-24 (with Port Trunk)

Code:

```
reza@imxpert.co
; J9085A Configuration Editor; Created on release # R.11.25
```

```
hostname "ProCurve 2610-24"
trunk 25-26 Trk1 Trunk
default-gateway ip 192.168.88.1
snmp-server community "public" Unrestricted
vlan 1
  name "DEFAULT_VLAN"
  untagged 9-12,21-24,27-28, Trk1
  ip address 192.168.88.3 255.255.255.0
  no untagged 1-8,13-20
  exit
vlan 5
  name "VLAN5"
  untagged 1-8
  tagged Trk1
  exit
vlan 10
  name "VLAN10"
  untagged 13-20
  tagged Trk1
  exit
spanning-tree Trk1 priority 4
```

CRS Performance Tuning  
so that the CPU loads a small switch, disable unnecessary packages in CRS, and turn off / disable all features such as connection tracking, firewall, dhcp server, dhcp client (default is enabled)



Conclusion  
with the right configuration, MikroTik CRS can interoperate with Switch Others use a standard protocol 802.1Q (VLAN Tagging) and 802.11ad (LACP) for port trunking / bonding / Etherchannel

Good luck !!!  
source:

The Following 2 Users Say Thank You to si\_faisal For This Useful Post:

fonda , j0dy

# 2

11-02-2015, 00:46

Status Offline



warkirasep



Member

Join Date:	Oct 2009
Posts:	293
Reviews:	Read 0 Reviews
Downloads:	0

Great, finally the mikrotik outputs layer 3 switches as well, please try it,

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