

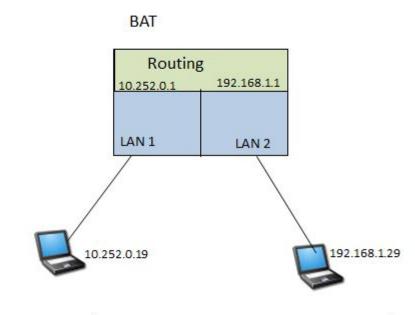
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### How to redirect Broadcast when the $\ensuremath{\mathsf{BAT}}$ is used as router

- 2018-02-21 - BAT, WLC (Hilcos)

## 1 Scenario

Routing on a BAT is configured between 2 interfaces as follow :



IP NET 1: 10.252.0.0/24

IP NET 2: 192.168.1.0/24

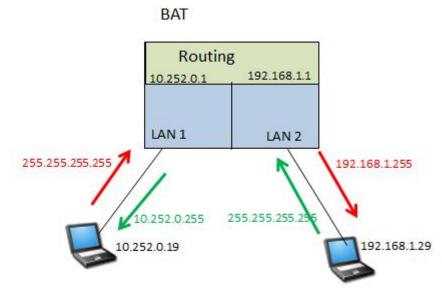
Configuration on the BAT (from the default config) :

set Setup/TCP-IP/Network-list/INTRANET 192.168.1.1 255.255.255.0 \* BRG-1

set Setup/TCP-IP/Network-list/NET2 10.252.0.1 255.255.255.0 \* BRG-2 \* Intranet

set Setup/LAN-Bridge/Port-Data/LAN-1 \* BRG-2

What we want to do :



IP NET: 10.252.0.0/24

IP NET: 192.168.1.0/24

Redirect specific IP broadcast (depending on the UDP port) from IP NET 1 to IP NET 2 and vice versa :

# 2 The IP redirect function

There is in the BAT a Firewall L2.

It makes possible a redirection of IP datas.

Nevertheless it works as a Firewall at the interface level. Enabling 1 rule on the interface will automatically turn it on , all the traffic which isn't defined in the rules will be dropped (at the interface level).

That's why in our case we'll define 2 preliminary rules, one to allow the IP traffic, another one to allows the ARPs (these 2 rules are enough to make IP communications working properly).

Then 2 additionnal rules : 1 to redirect the specific broadcast from IP NET 1 to IP NET 2 (based on the UDP port) and vice versa.

## **3** Broadcasts to redirect

Define the traffic which has to be redirected depending on the UDP port. (it can also be based on a TCP port but IP broadcast usually don't use TCP as transport layer protocol)

In our case we'll redirect traffic using UDP port 666

o. Time	Date	Source	Destination	Protocol							
1 0.0000	0 2013-03-27 10:39:2	9.819978 10.252.0.19	255.255.255.255	UDP							
			m								
Ethernet II, Destination	Src: SpeedDra_00:05:48 n: Broadcast (ff:ff:ff:ff eedDra_00:05:48 (00:13:3)		st (ff:ff:ff:ff:ff)								
Version: 4 Header leng Differentia Total Leng Identificat Flags: 0x00 Fragment of Time to liv Protocol: 0	gth: 20 bytes ated Services Field: 0x00 th: 46 tion: 0x0000 (0) ffset: 0 re: 255 JDP (17)	(10.252.0.19), Dst: 255.255.255.2									
Source: 10. Destination User Datagram Source port Destination Length: 26	<pre>cksum: 0xb0b0 [correct] .252.0.19 (10.252.0.19) 1: 255.255.255.255 (255.255)</pre>	255.255,255) qs (666) Dst Port: disclose (667	)								

# 4 Configuration

4.1 Via LAN Config

Configuration

èWireless LAN

• Security

• Protocols

Add

Add the 4 rules :

Name	Protocol	Subtype	First port	Last port	Remote MAC address	DHCP assigned IP	Network IP	Netmask	Interface list	Action	Redirect IP address
IP	0800	0	0	0	00000000000	Irrelevant	0.0.0.0	0.0.0.0	LAN-1,LAN-2	Pass	0.0.0.0
ARP	0806	0	0	0	00000000000	Irrelevant	0.0.0.0	0.0.0.0	LAN-1,LAN-2	Pass	0.0.0.0
NET1_TO_NET2	0800	17	666	666	000000000000	Irrelevant	0.0.0.0	0.0.0.0	LAN-1	Redirect	192.168.1.255
NET2_TO_NET1	0800	17	666	666	00000000000	Irrelevant	0.0.0.0	0.0.0.0	LAN-2	Redirect	10.252.0.255

#### 4.2 Via CLI

Set Setup/LAN-Bridge/Protocol-Table/IP \* \* 0800 \* \* \* \* \* LAN-1,LAN-2 Pass

Set Setup/LAN-Bridge/Protocol-Table/ARP \* \* 0806 \* \* \* \* \* LAN-1,LAN-2 Pass

Set Setup/LAN-Bridge/Protocol-Table/NET1\_TO\_NET2 \* \* 0800 \* \* 17 666 666 LAN-1 Redirect 192.168.1.255

Set Setup/LAN-Bridge/Protocol-Table/NET2\_TO\_NET1 \* \* 0800 \* \* 17 666 666 LAN-2 Redirect 10.252.0.255