## netkit lab gMapsCaching

Version	1.0
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Web	http://www.tic.fdns.net/tic/html/lab.html
Description	Testing special squid version to cache maps.google.com

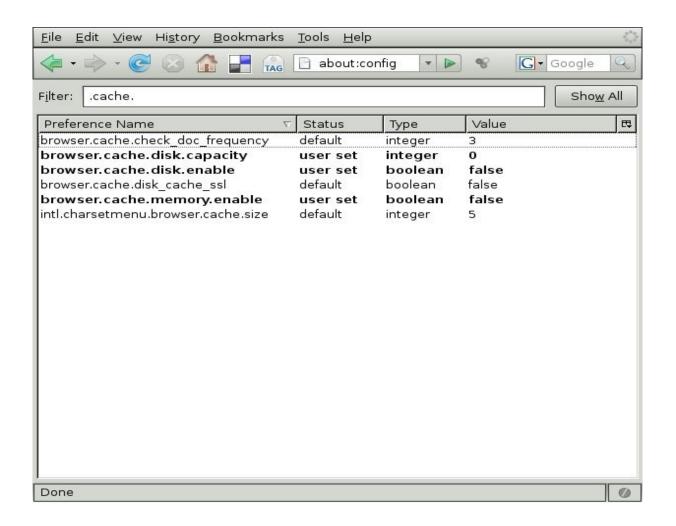
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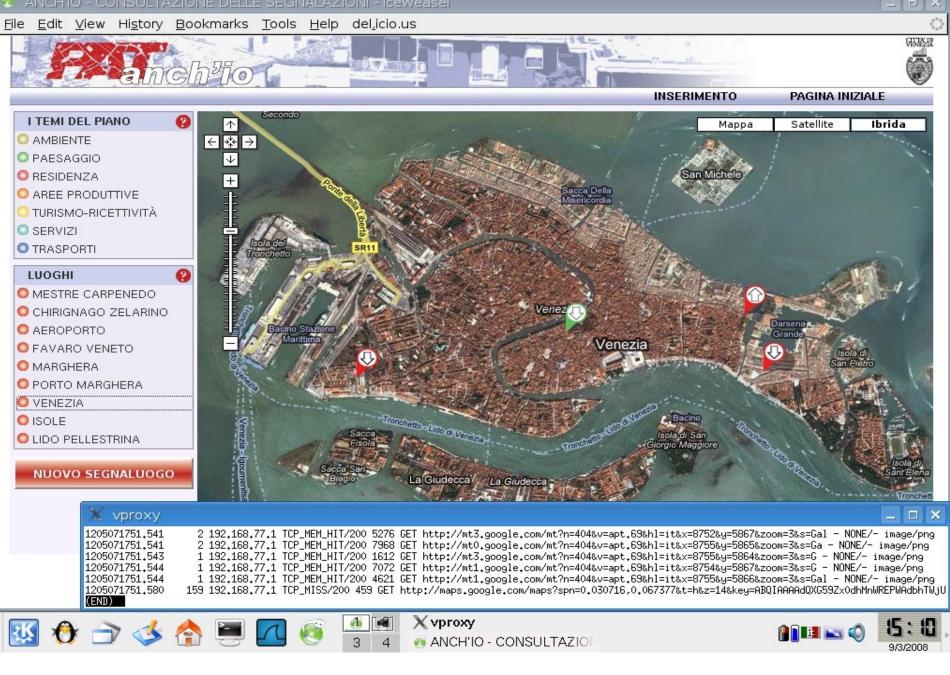
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# firefox setting

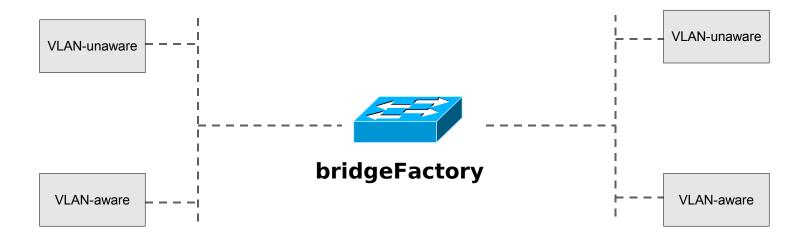
Manual proxy c	onfiguration:		
HTTP Proxy:	192.168.77.254	Port:	8080
	☑ Use this proxy server for all protocols		
	192,168,77,254	P <u>o</u> rt:	8080
ETP Proxy:	192.168.77.254	Port:	8080
Gopher Proxy:	192.168.77.254	Port:	8080
SO <u>C</u> KS Host:	192,168,77.254	Port:	8080
	O SOCKS v4 ⊙ SOCKS v5		
No Proxy for:	localhost, 127.0.0.1		
Autom <u>a</u> tic prox	Example: .mozilla.org, .net.nz, 192.168.1 y configuration URL:	.0/24	

## kiosk firefox setting

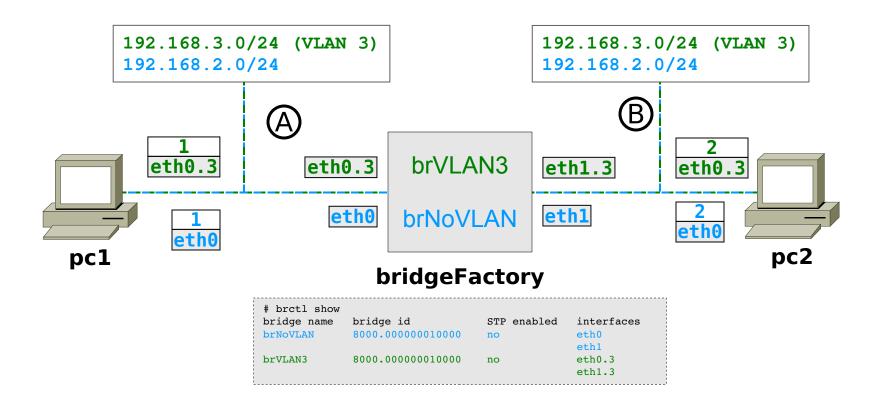




### abstract topology



### detailed topology



### Problem



The traffic go all trough brNoVLAN bridge



bridgeFactory

### Solution: EBTables

#### Kernel space

Integrated into kernel 2.6 and patchable into kernel 2.4 (LEAF/Bering ready)
Enable in "Bridge: Netfilter Configuration" section:

```
CONFIG_BRIDGE_NT_EBTABLES=m
CONFIG_BRIDGE_EBT_* =m
```

User space: http://ebtables.sourceforge.net/

arptables: is used to set up, maintain, and inspect the tables of ARP rules in the Linux kernel

ebtables: is used to set up, maintain, and inspect the tables of

Ethernet frame rules in the Linux kernel.

### Solution: EBTables

-t broute, is used to make a brouter, it has one built-in chain: BROUTING.

The targets DROP and ACCEPT have special meaning in the broute table. DROP actually means the frame has to be routed, while ACCEPT means the frame has to be bridged.

The BROUTING chain is traversed very early. It is only traversed by frames entering on a bridge enslaved NIC that is in forwarding state. Normally those frames would be bridged, but you can decide otherwise here.

### EBTables commands

#### Filtering:

```
ebtables -t broute -A BROUTING -i eth0 -p 802_1q --vlan-id 3 -j DROP ebtables -t broute -A BROUTING -i eth1 -p 802_1q --vlan-id 3 -j DROP
```

#### Counting purpose:

```
ebtables -t broute -A BROUTING -i eth0.3 -p ipv4 -j CONTINUE ebtables -t broute -A BROUTING -i eth1.3 -p ipv4 -j CONTINUE
```

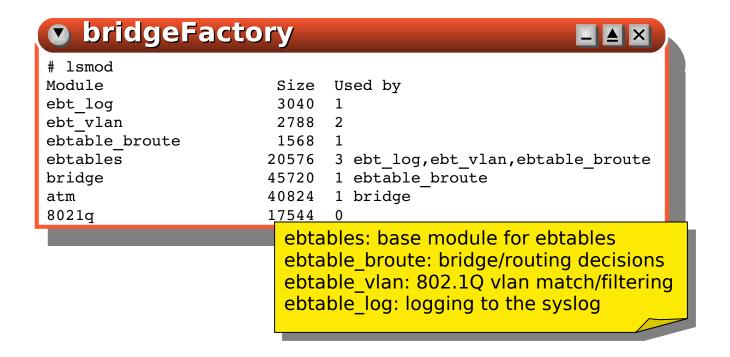
#### Logging:

ebtables -t broute -A BROUTING --log-ip --log-arp

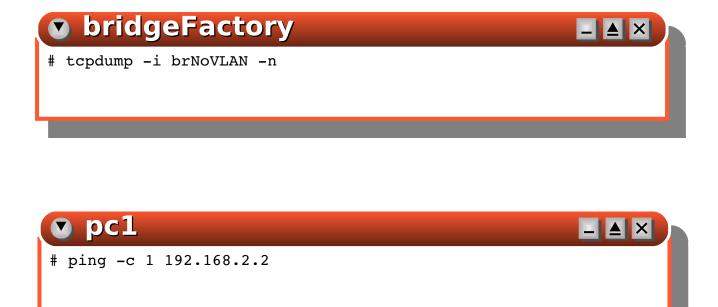
#### Display counter:

ebtables -t broute -L BROUTING --Lc

### modules loaded



## Testing brNoVLAN



# Testing brVLAN3

