

The web browser game

Hack4Kids@Deloitte



Qui sera...
Who will be...



X



X



X

?

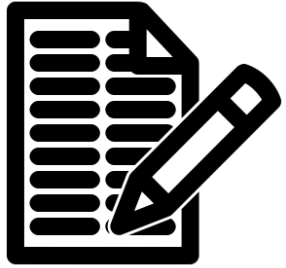
X - Un ordinateur
A laptop

X - Un smartphone
A smartphone

X - www.superkids.lu
website

Les concepts – Les acteurs

The concepts – The actors



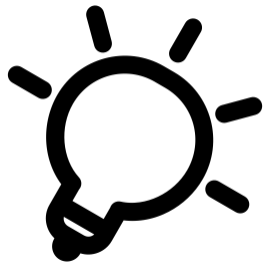
Vous écrivez des messages

You write messages



Vous lisez les messages

You read messages



Vous êtes le cerveau

You are the brain

Les concepts – Les acteurs

The concepts – The actors



Des routeurs / switches

Routers / switches

Vous faites la circulation, comme un policier. Vous décidez par où passent les messages.

You manage the traffic like a policeman. You choose the path that the messages should take.



Les concepts – Les acteurs

The concepts – The actors



Evitez les embouteillages!

Avoid traffic jams !

Quand un message passe, faites du bruit!
When a message get across, make noise!



Les concepts – Les acteurs

The concepts – The actors



Vous êtes Flash. Vous
êtes le **Message**.



You are Flash.
You are the
Messenger.



Les concepts – Les acteurs

The concepts – The actors



**Vous transférez les
messages entre les
routeurs.**

**You transfer
messages between
routers.**



Les concepts – Les règles

The concepts – the rules



**Question 1: Who knows
what an IP address is?**

**Question 1: Qui sait ce
qu'est une adresse IP?**

Dans la vraie vie In real life



Like a telephone number

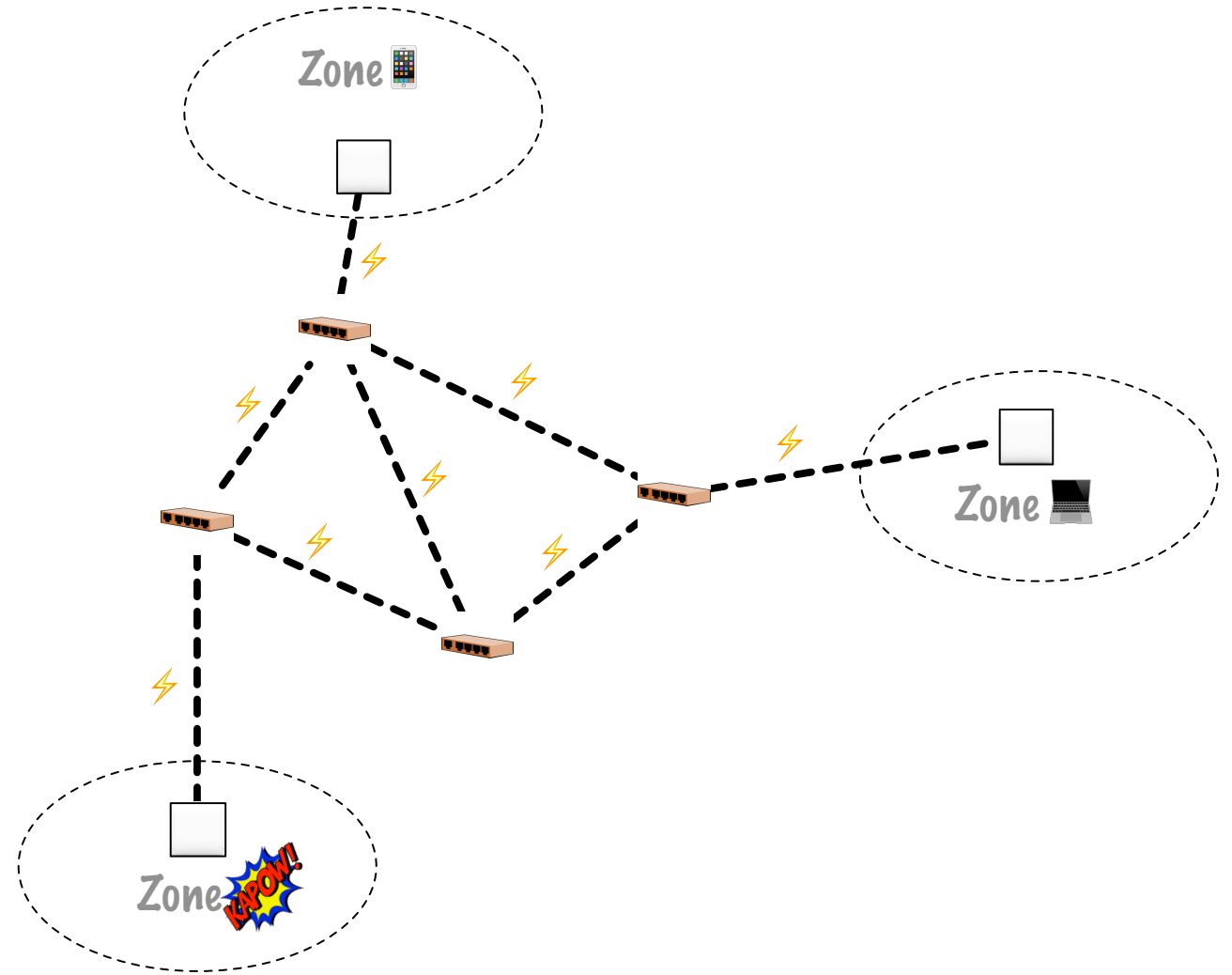
Comme un numéro de téléphone

 ,  or  = 127.0.0.1

But we use pictures / Mais on utilise des images

Regardons notre réseau

Let's have a look at our network



Les concepts – Les règles

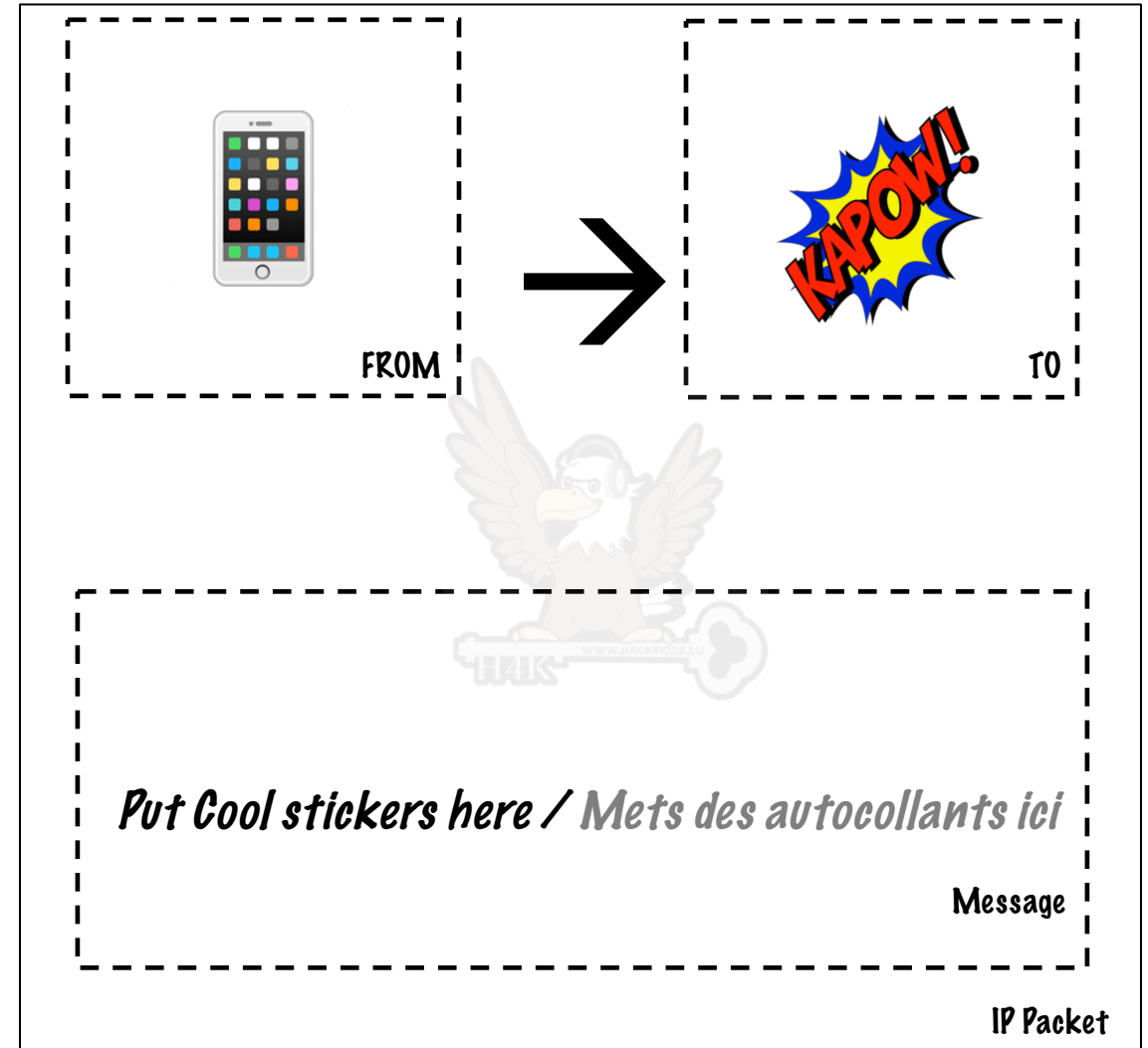
The concepts – The rules



Les messages

Messages




Sur Internet, les ordinateurs
échangent des messages IP
On the Internet, Computer
exchange IP M messages



Les concepts – Les règles

The concepts – The rules



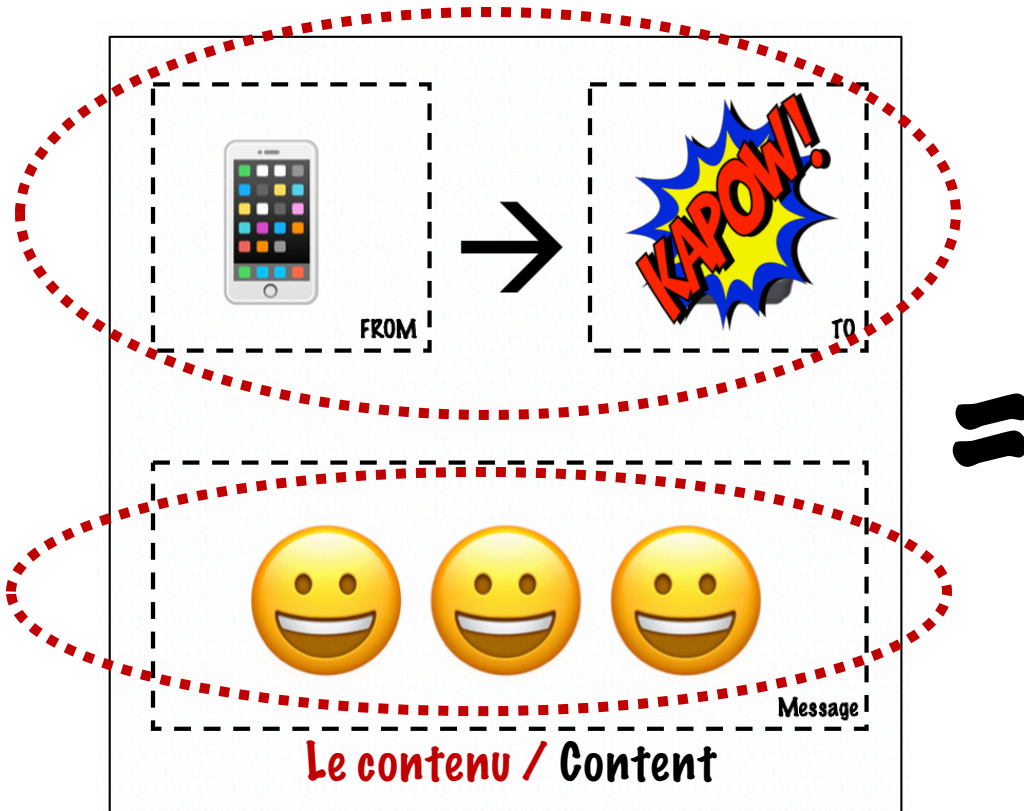
Jeu 1 – ,  et 
Doivent recevoir et envoyer
chacun au moins 1 MESSAGE

Game 1 – ,  and 
Each participant must receive and send at
least 1 message

Dans la vraie vie In real life



Des
métadonnées
Metadata



Wireshark 1.8.5 (SVN Rev 47350 from /trunk-1.8)

Filter: Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
153	25.002462000	10.9.0.201	10.9.0.255	UB-LSP-DI	175	Dropbox LAN sync Discovery Protocol
154	25.279451000	10.9.0.23	10.9.0.255	NBNS	92	Name query NB SOFTPEDIA-KE<lc>
155	25.453558000	AsustekC_95:34:b5	Broadcast	ARP	64	Who has 10.9.0.1? Tell 10.9.0.2 [ETHERNET FRAME CHECK S
156	25.491924000	10.9.0.41	239.255.255.250	SSDP	165	M-SEARCH * HTTP/1.1
157	26.028587000	10.9.0.23	10.9.0.255	NBNS	92	Name query NB SOFTPEDIA-KE<lc>
158	26.048341000	10.9.0.48	10.9.0.255	NBNS	110	Registration NB SOFTPEDIA-PC<00>
159	26.048602000	Dell_0c:74:ad	Broadcast	ARP	60	Who has 10.9.0.48? Tell 10.9.0.92
160	26.280066000	Dell_0c:ff:83	Broadcast	ARP	60	Who has 10.9.0.1? Tell 10.9.0.31
161	26.471554000	10.9.0.26	10.9.0.255	SMB Mails	321	Write Mail Slot
162	26.472024000	10.9.0.26	10.9.0.255	SMB Mails	390	Write Mail Slot
163	26.535934000	10.9.0.31	239.255.255.250	SSDP	175	M-SEARCH * HTTP/1.1
164	26.778531000	10.9.0.23	10.9.0.255	NBNS	92	Name query NB SOFTPEDIA-KE<lc>
165	26.811758000	10.9.0.31	10.9.0.255	UDP	82	Source port: 64695 Destination port: sentinelsrm

Frame 157: 92 bytes on wire (736 bits), 92 bytes captured (736 bits) on interface 0

Ethernet II, Src: Dell_81:87:48 (00:18:8b:81:87:48), Dst: Broadcast (ff:ff:ff:ff:ff:ff)

- Destination: Broadcast (ff:ff:ff:ff:ff:ff)
 - Address: Broadcast (ff:ff:ff:ff:ff:ff)
 - ...1... = LG bit: Locally administered address (this is NOT the factory default)
 - ...1... = IG bit: Group address (multicast/broadcast)
 - Source: Dell_81:87:48 (00:18:8b:81:87:48)
 - Address: Dell_81:87:48 (00:18:8b:81:87:48)
 - ...0... = LG bit: Globally unique address (factory default)
 - ...0... = IG bit: Individual address (unicast)
 - Type: IP (0x0800)
- Internet Protocol Version 4, Src: 10.9.0.23 (10.9.0.23), Dst: 10.9.0.255 (10.9.0.255)
- User Datagram Protocol, Src Port: netbios-ns (137), Dst Port: netbios-ns (137)
 - Source port: netbios-ns (137)
 - Destination port: netbios-ns (137)
 - Length: 58
 - Checksum: 0xbc8e [validation disabled]
- NetBIOS Name Service

0000 ff ff ff ff ff 00 18 8b 81 87 48 08 00 45 00H..E.
0010 00 4e 05 47 00 00 80 11 20 31 0a 09 00 17 0a 09 ..N.G....1.....
0020 00 ff 00 89 00 89 00 3a bc 8e 9f 33 01 10 00 01:3.....
0030 00 00 00 00 00 00 20 46 44 45 50 45 47 46 45 46F DEPEGFEF
0040 41 45 46 45 45 45 4a 45 42 43 4e 45 4c 45 46 43 AEFEFEJE BONELEFC
0050 41 43 41 43 41 42 4d 00 00 20 00 01 ACACABM. . .

en0: <live capture in progres... Packets: 201 Displayed: 201 Marked: 0 Profile: Default

PAUSE! BREAK!



Est-ce sécurisé?
Is it secured?

*Quelle différence entre
une carte postale et
une enveloppe?*

***What is the difference between a post-card
and an envelop?***



Dans la vraie vie:
In real life:



https://

Jeu 2 – le site web

Game 2 – the website



Joueurs 📱 et 💻 doivent aller sur le site web www.superkids.lu

Players 📱 et 💻 have to go on www.superkids.lu web site

Joueurs 💣 va envoyer le contenu

Player 💣 will send the content

