

Take control of your communication!

By Adrien Béraud
Guillaume Roguez







Adrien Béraud



Simon Désaulniers



Édric Ladent-Milaret



Alexandre Lision



Guillaume Roguez



Stepan Salenikovich









is powered by



A Free Software Company

Connected People & Objects

Digital Economy & Innovation

Cooperation & Sustainable Development

Toronto

Quebec

Montreal

Paris

Lyon

DEMONSTRATION



A Freedom Respectful Project

- To run, study, modify and distribute in a clear way (GPLv3)
- To federate: based on recognized open standards
- To respect privacy and personal data





- 1. A Distributed P2P Architecture
- 2. Abstracting the Connection
- 3. A Secure Solution
- 4. A Universal Tool



A DISTRIBUTED PER-TO-PER ARCHITECTURE

Concept of distribution

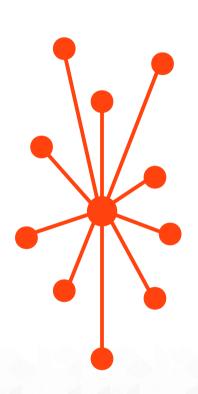


Paul Baran (1926-2011)

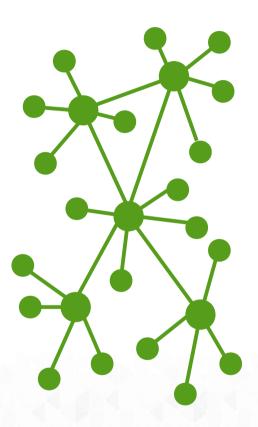
- Pioneer in the development of computer networks
- Co-inventor of packet switched computer networking



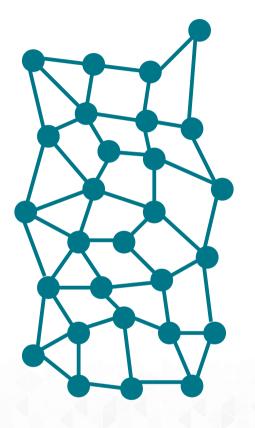
Concept of distribution



Centralized Network



Decentralized Network



Distributed Network

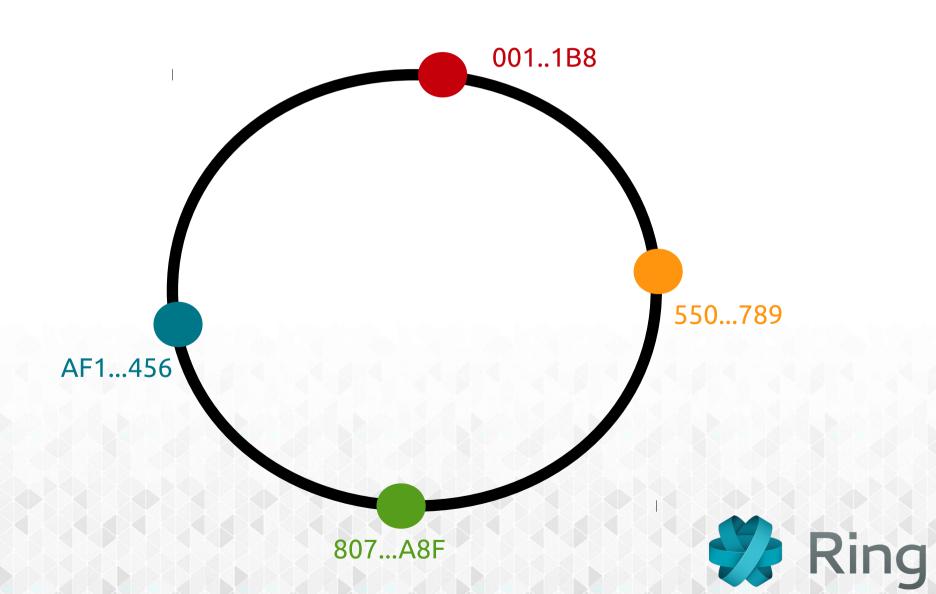


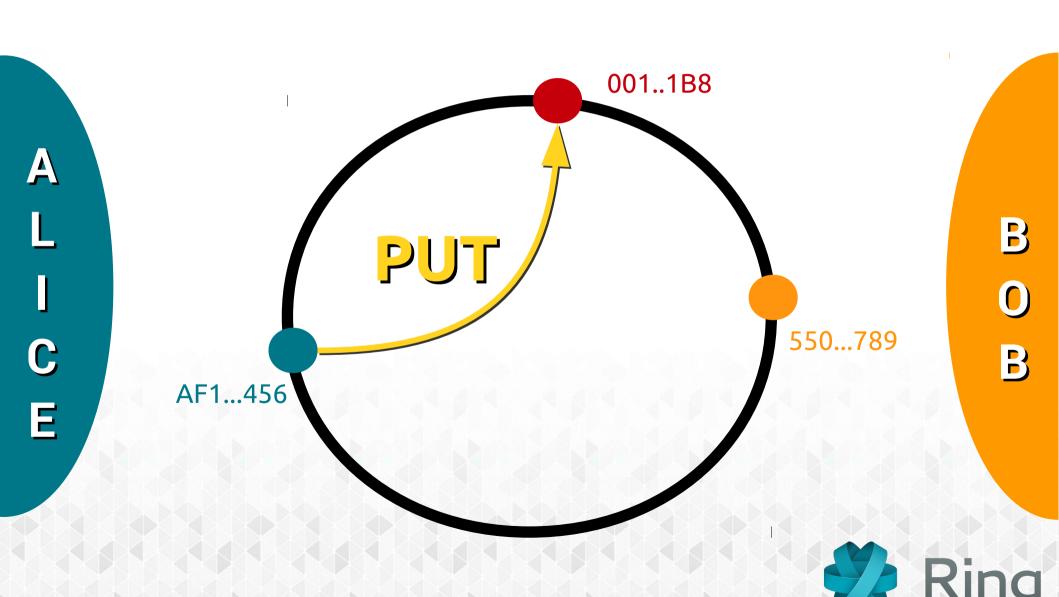
OpenDHT

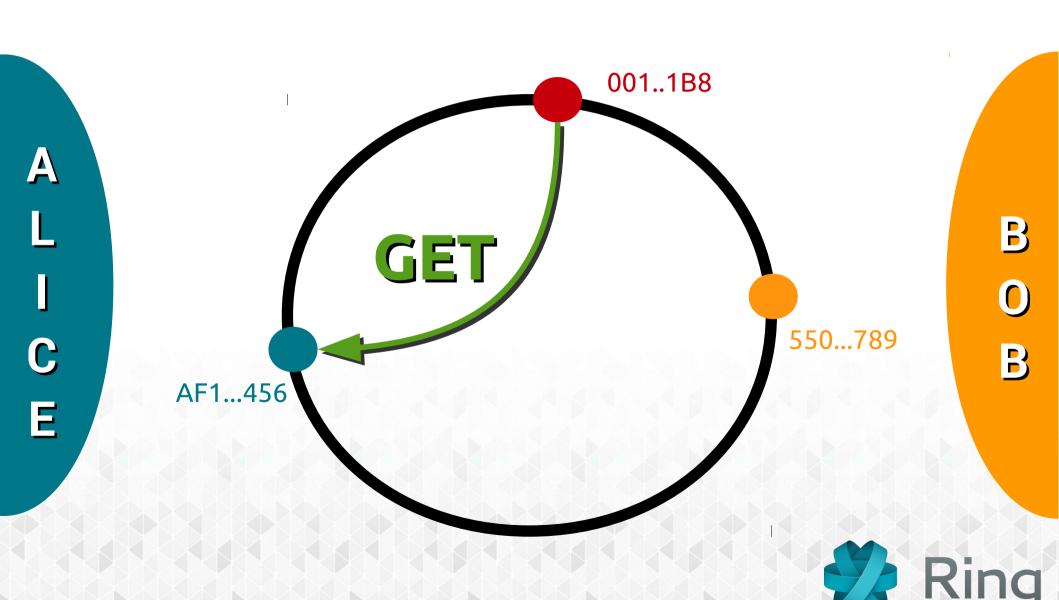
https://github.com/savoirfairelinux/opendht

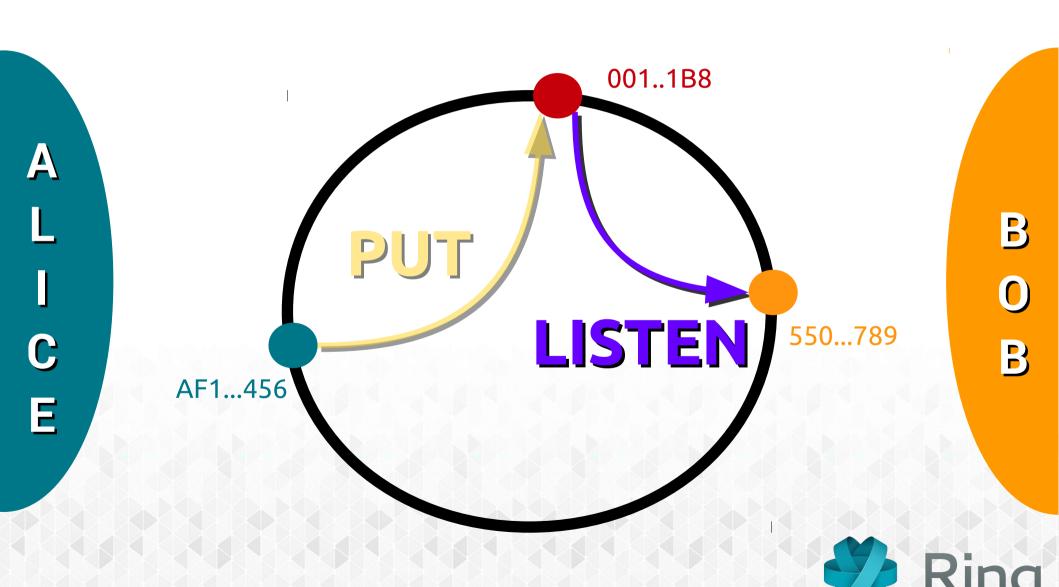












ABSTRACTING THE CONNECTION

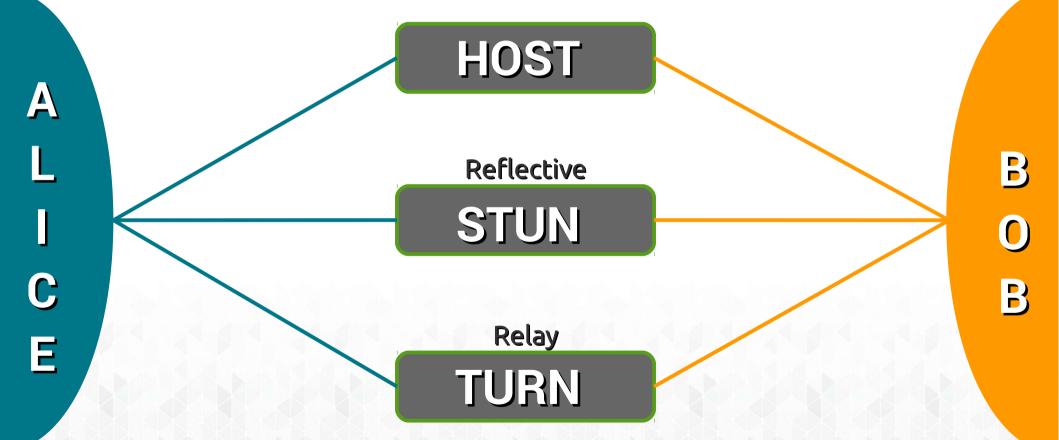
NAT / Firewall



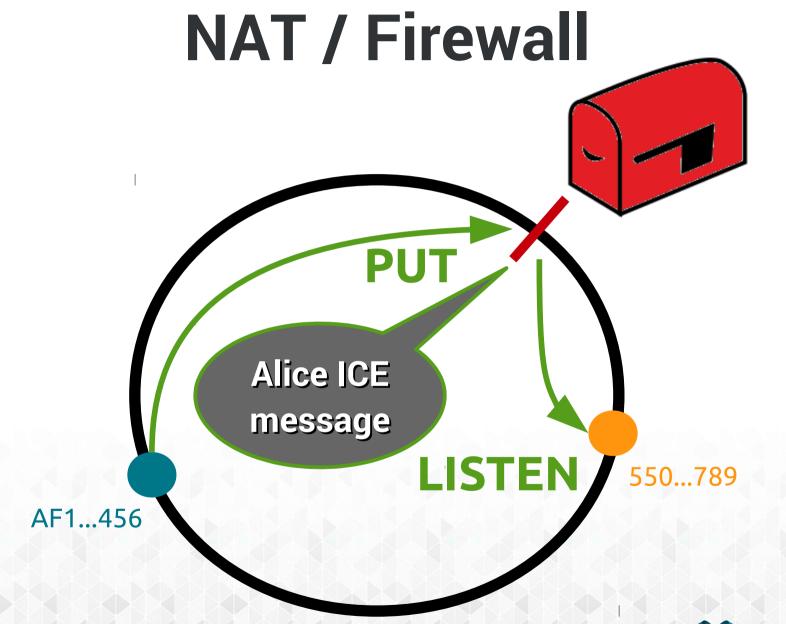


ICE Message

(list of candidats)





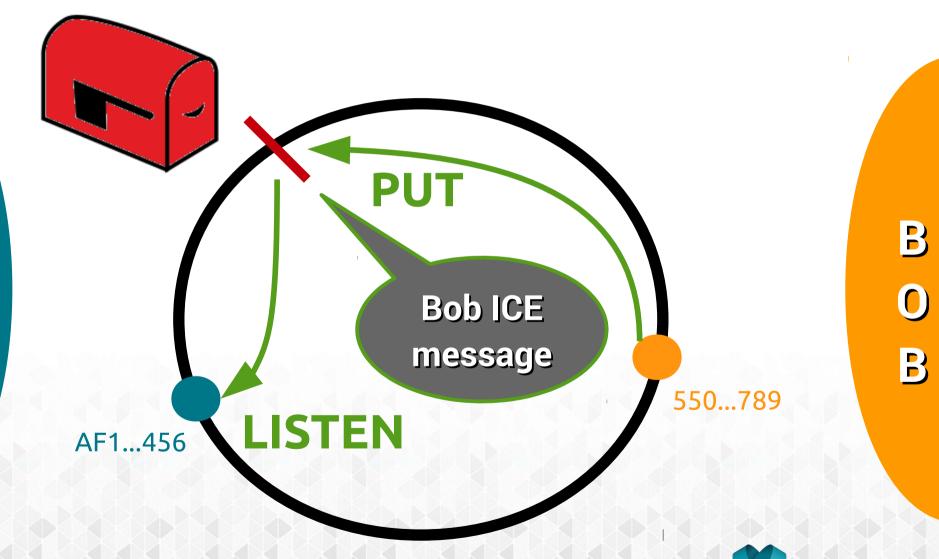


B

B



NAT / Firewall



Ε



NAT / Firewall

Blah Blah?

Blah Blah!

C ICE sockets

E

B

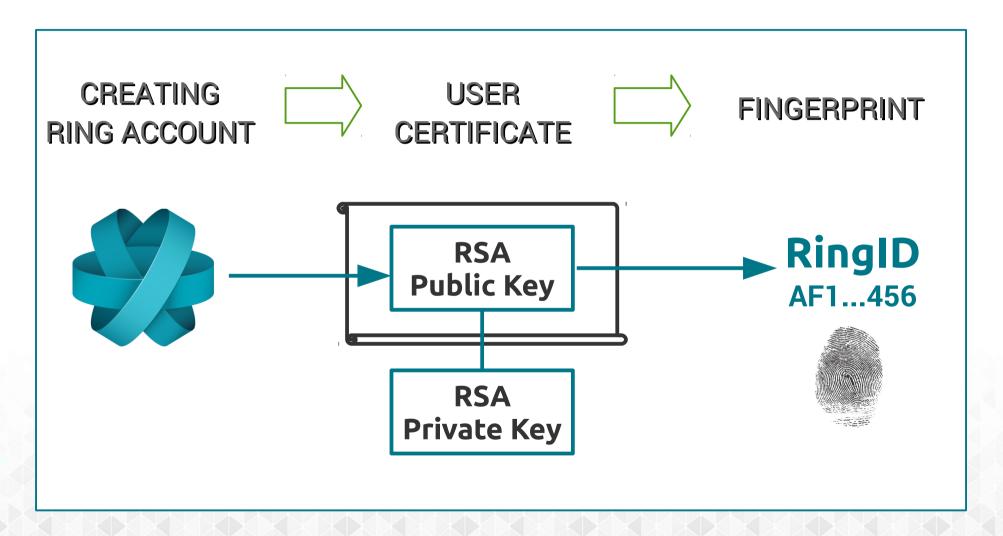
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B

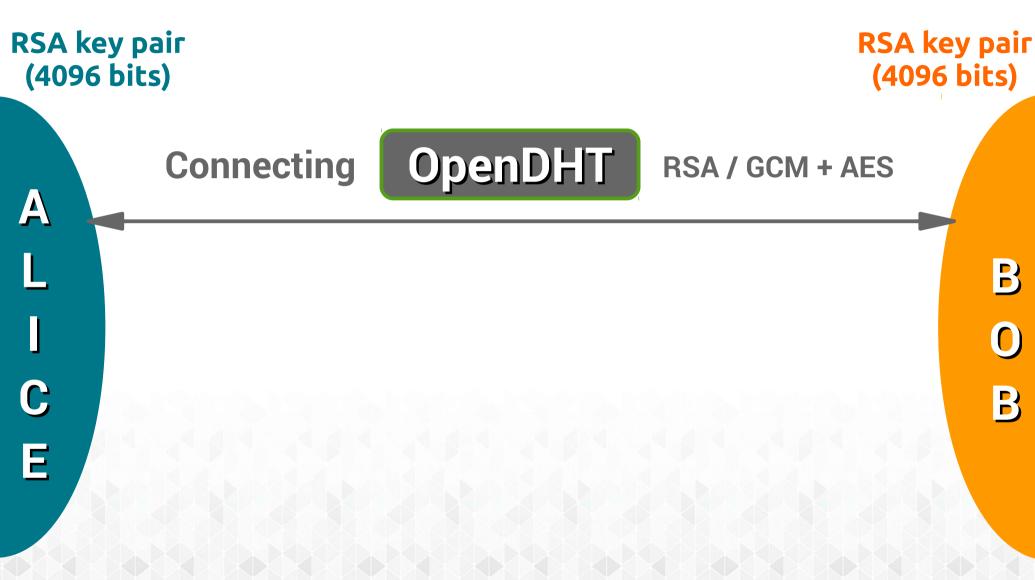


A SECURE SOLUTION

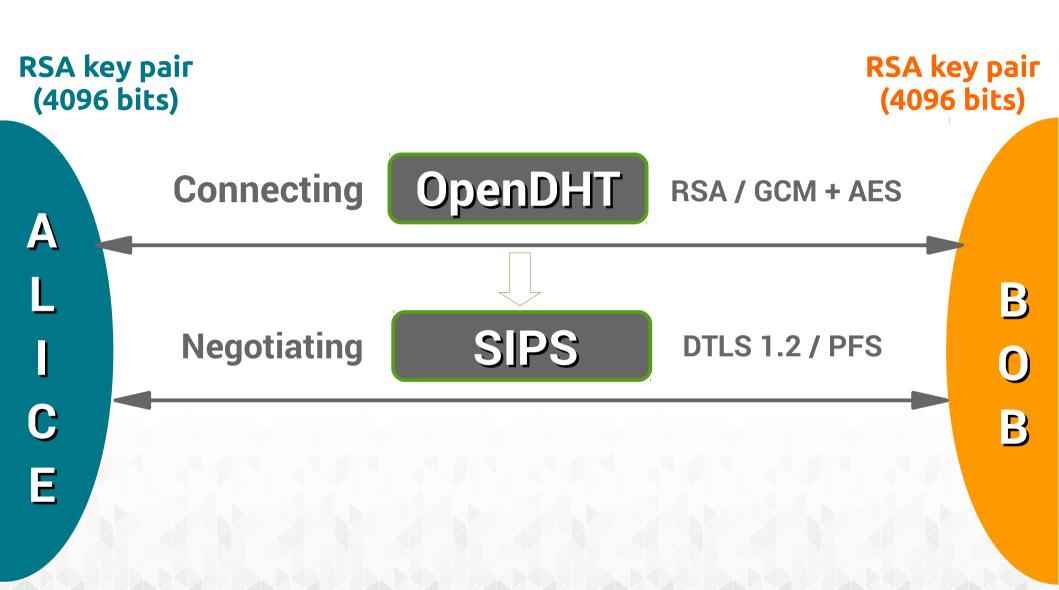
How is generated a RingID?



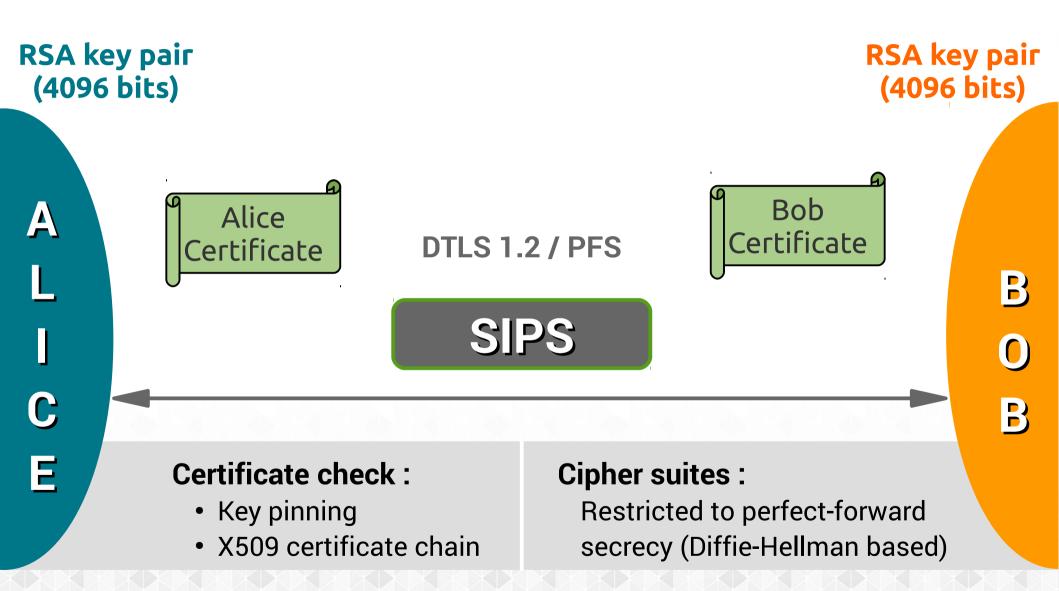




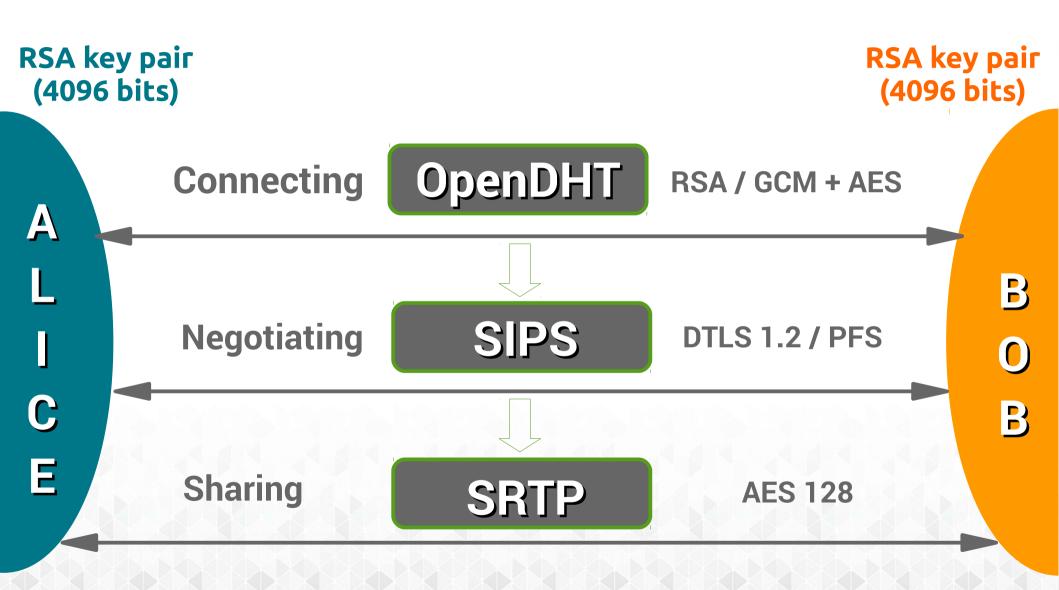








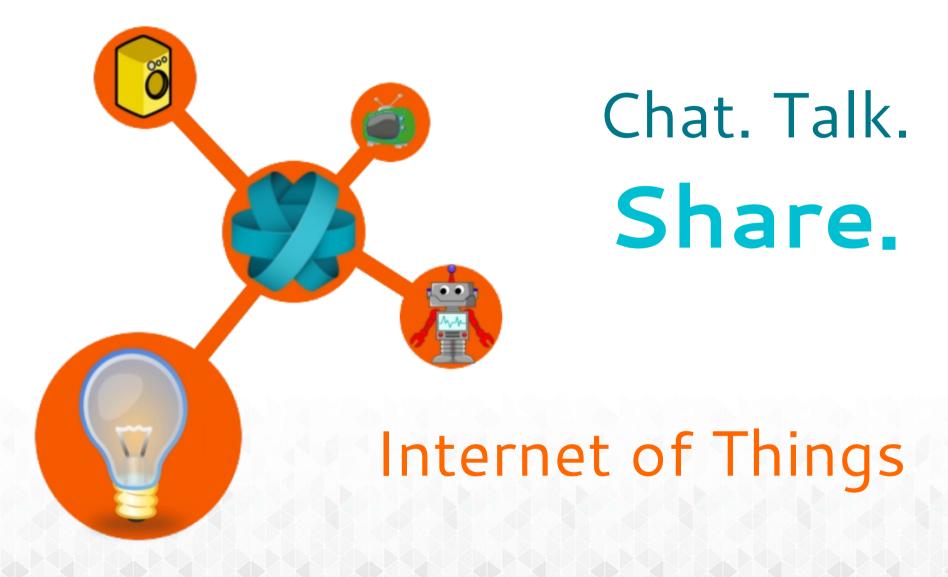






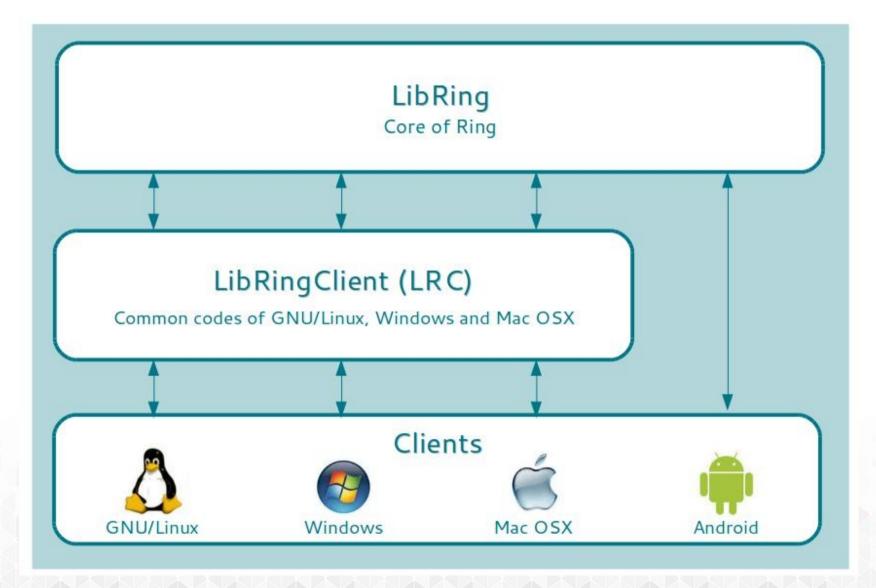
AUNIVERSAL SOLUTION

What does Ring?





How is Ring built?





Who?

All users (people and industry) thanks to the contributors

What?

Free communication platform (voice, video, text, files)

Why?

Freedom - To exchange data respecting privacy

Where?

GNU/Linux – OS X – Windows Android - Connected devices







is looking for CONTRIBUTORS

UPnP IPv6 Security UX improvements

Go on and join the Ring team!



Report. Develop. Contribute.

Github

github.com/savoirfairelinux/ring-project

Bug tracker +ML

tuleap.ring.cx/projects/ring

Transifex

transifex.com/savoirfairelinux/ring/

IRC

Freenode #ring





Go on and join the ring!

ring.cx



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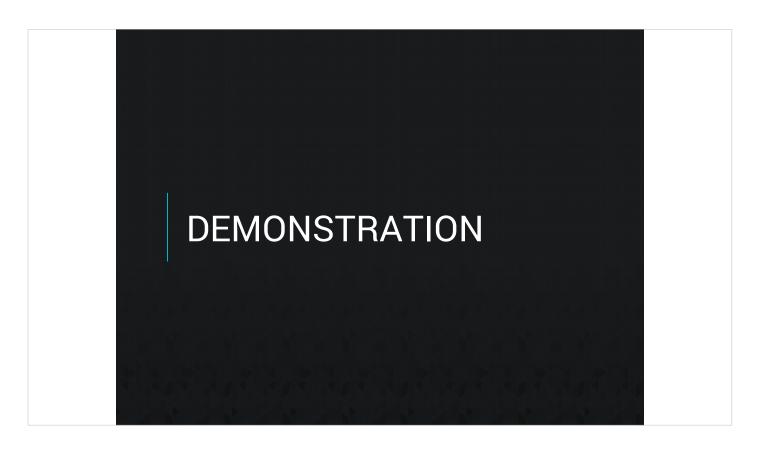
Stepan Salenikovich











Valeurs usage



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A DISTRIBUTED PEER-TO-PEER ARCHITECTURE

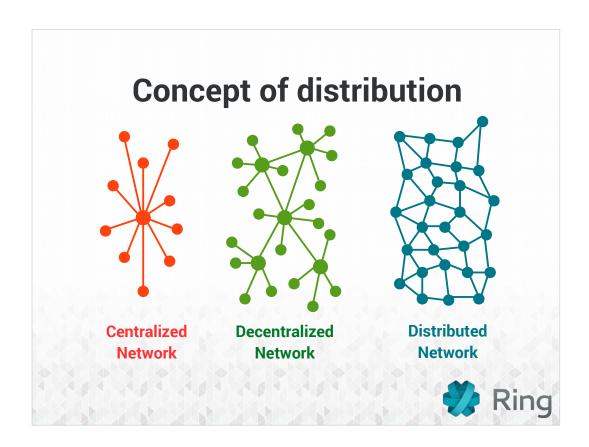
Concept of distribution



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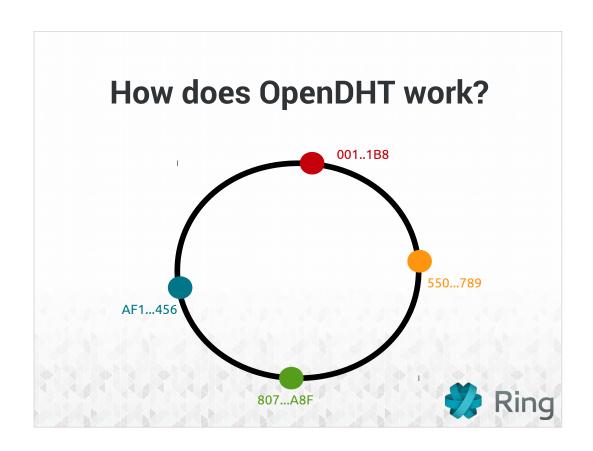


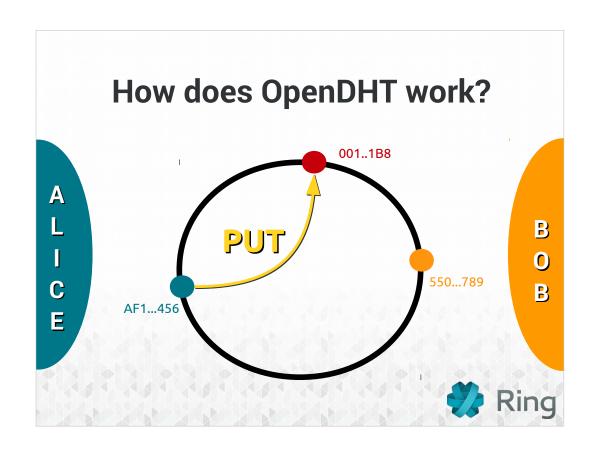
OpenDHT

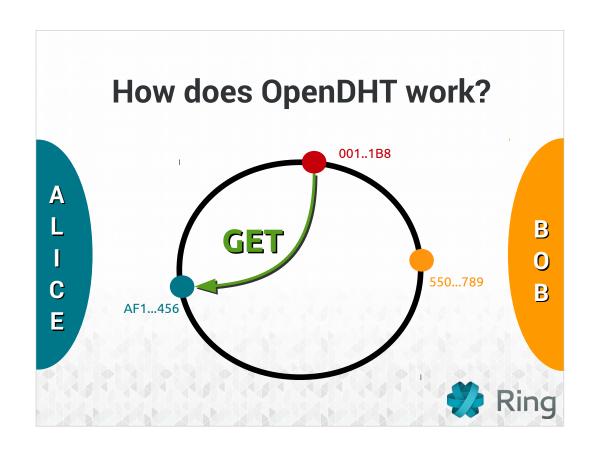
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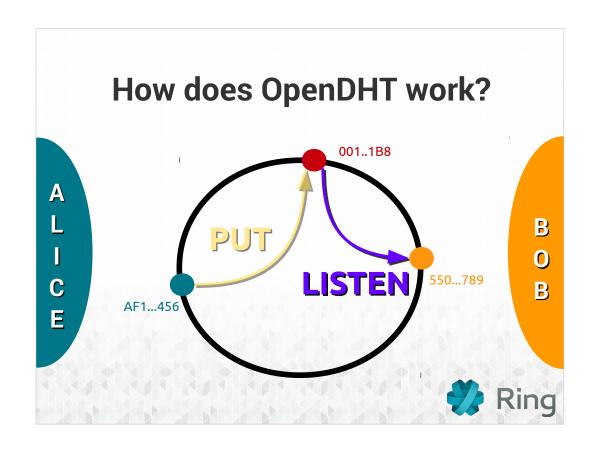




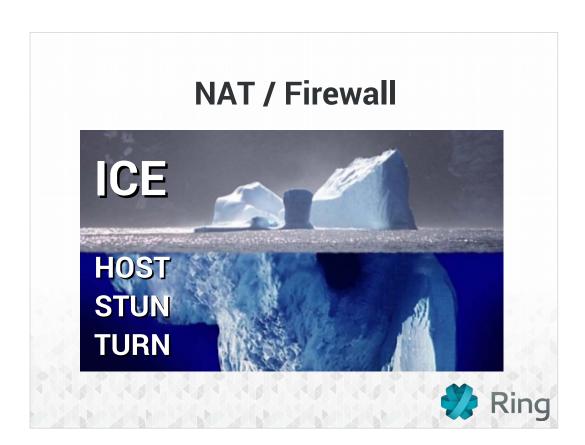


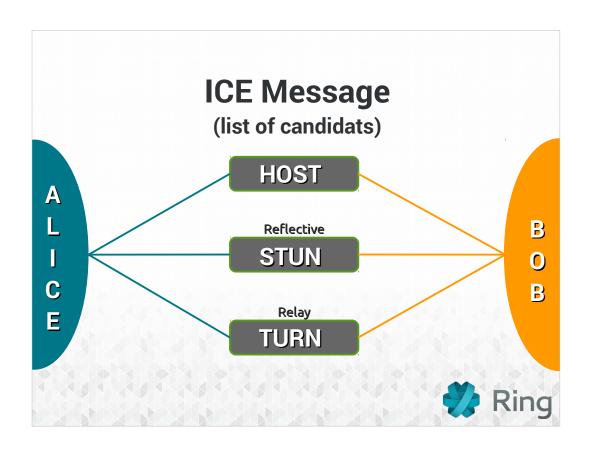


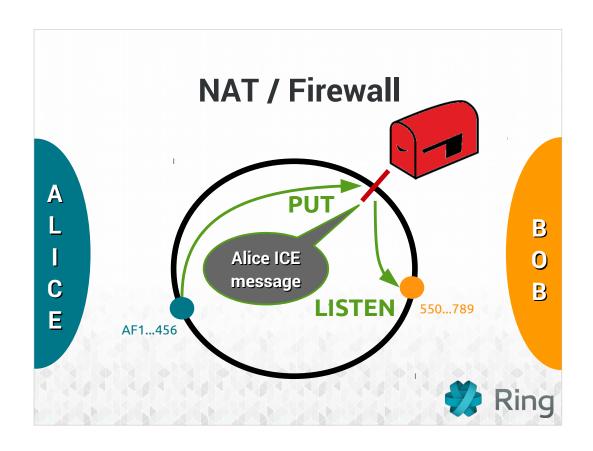


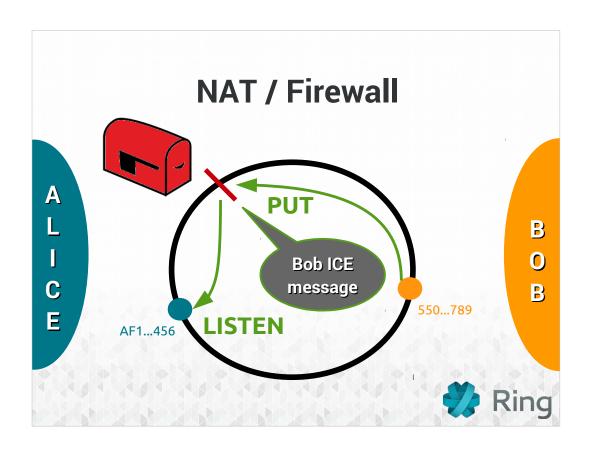


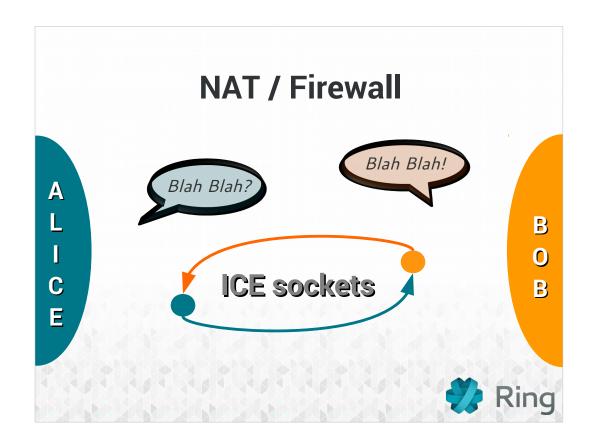
ABSTRACTING THE CONNECTION





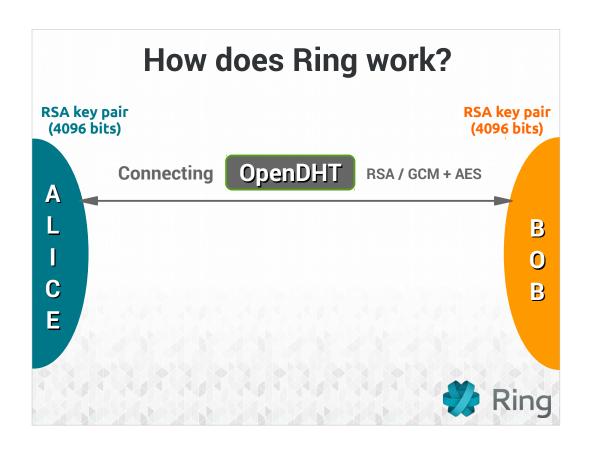


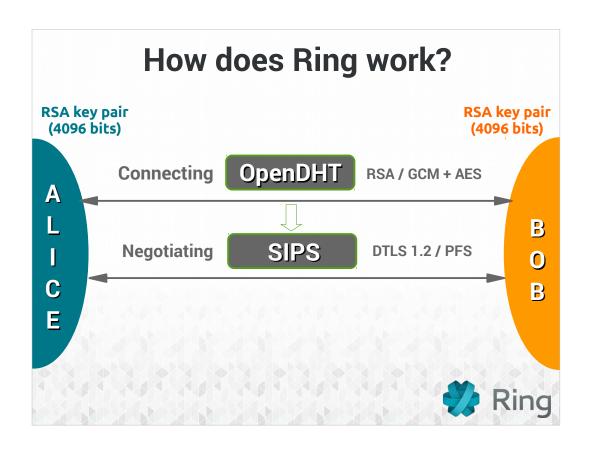


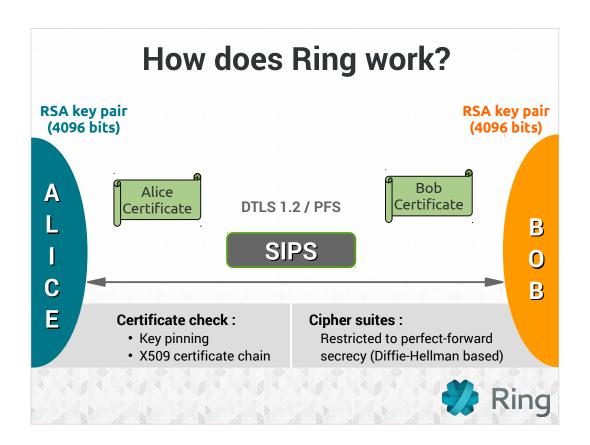


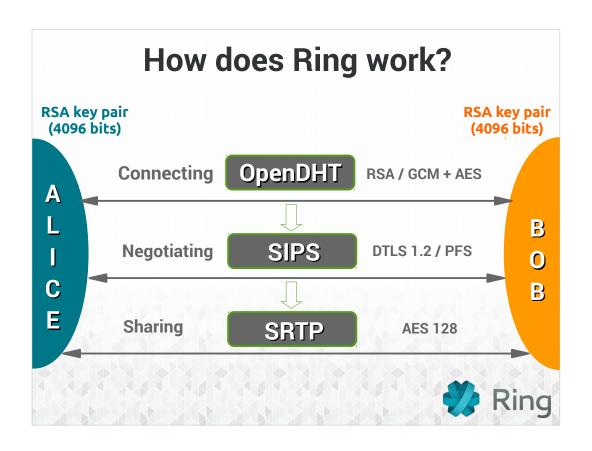
A SECURE SOLUTION

How is generated a RingID? CREATING RING ACCOUNT USER CERTIFICATE FINGERPRINT RSA Public Key RSA Private Key RingID AF1...456



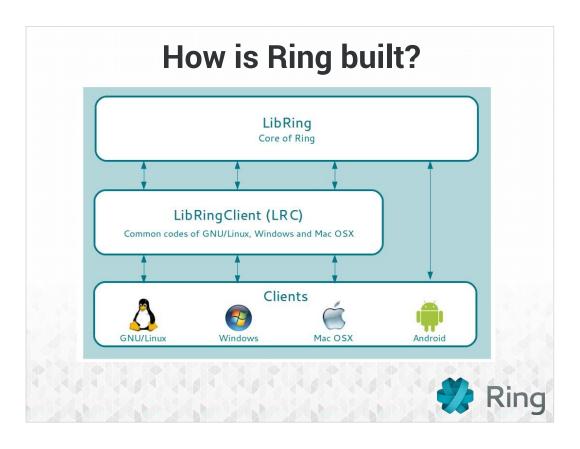






A UNIVERSAL SOLUTION





Pk Android utilise pas LRC? Technical difficulties with android platform architecture, threading, qt5.... Who? All users (people and industry) thanks to the contributors

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Why? Freedom - To exchange data respecting privacy

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