

anonymized web browsing

A close-up photograph of a small, light-colored kitten with wide, blue eyes peeking out from under a dark wooden door. The kitten's expression is one of concern or uncertainty. The background is a solid teal color.

iz safe?

What is anonymization?

Routing

The Standard Approach



Alice



Bob

The VPN Approach

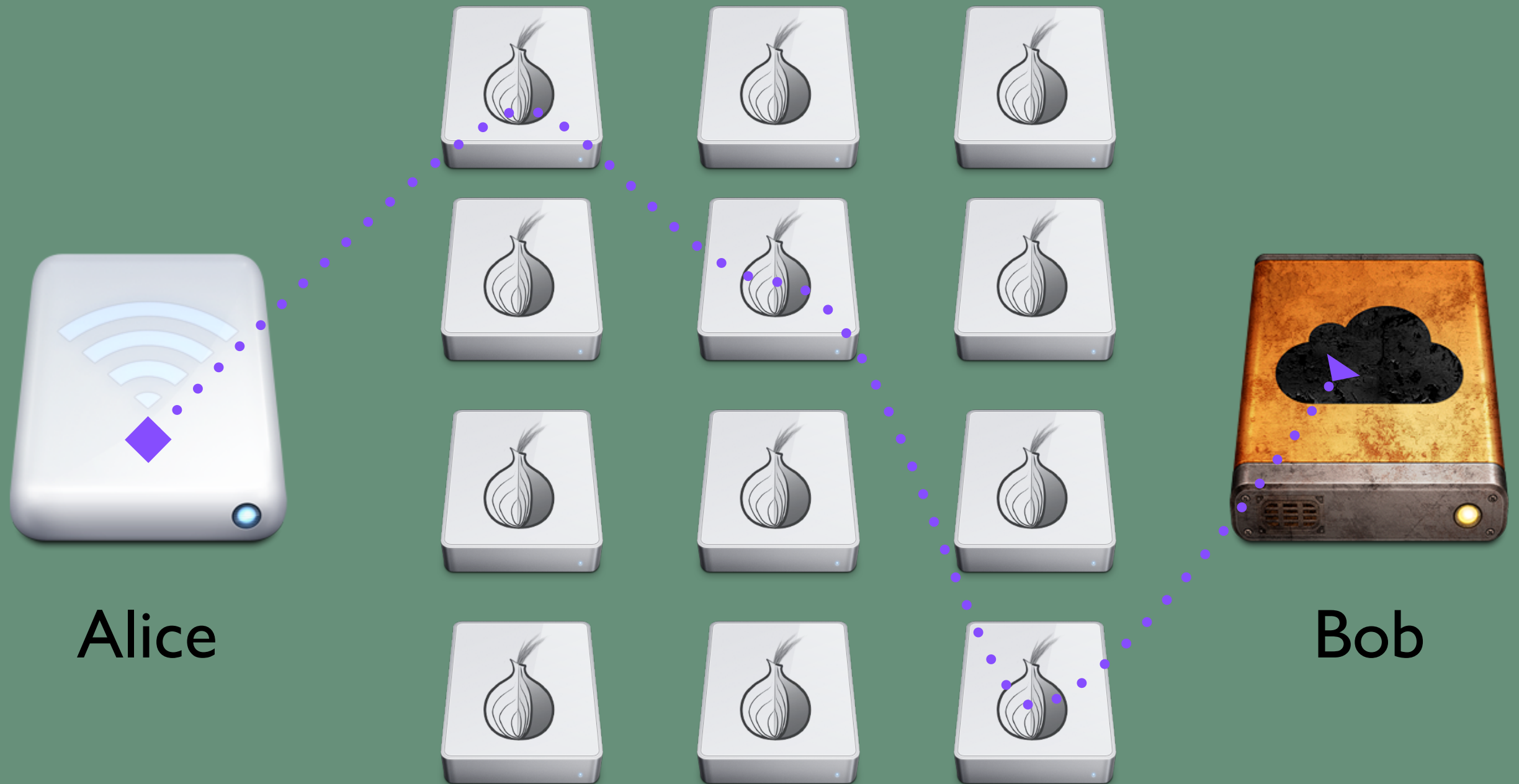


Alice



Bob

The Tor Approach



Alice

Bob

The Tor Network

How to use?



Anonymity Online

Protect your privacy. Defend yourself against network surveillance and traffic analysis.

[Download Tor](#)

- ➔ Tor prevents anyone from learning your location or browsing habits.
- ➔ Tor is for web browsers, instant messaging clients, remote logins, and more.
- ➔ Tor is free and open source for Windows, Mac, Linux/Unix, and Android

What is Tor?

Tor is free software and an open network that helps you defend against a form of network surveillance that threatens personal freedom and privacy, confidential business activities and relationships, and state security known as [traffic analysis](#)

[Learn more about Tor »](#)

Why Anonymity Matters

Tor protects you by bouncing your communications around a distributed network of relays run by volunteers all around the world: it prevents somebody watching your Internet connection from learning what sites you visit, and it prevents the sites you visit from learning your physical location. Tor works with many of your existing applications, including web browsers, instant messaging clients, remote login, and other applications based on the TCP protocol.

[Get involved with Tor »](#)

Our Projects



Tails

Live CD/USB distribution preconfigured to use Tor safely.



Orbot

Tor for [Google Android](#) devices.

Who Uses Tor?



Family & Friends

People like you and your family use Tor to protect themselves, their children, and their dignity while using the Internet.



Businesses

Businesses use Tor to research competition, keep business strategies confidential, and facilitate internal accountability.



Activists

Activists use Tor to anonymously report abuses from danger zones. Whistleblowers use Tor to safely report on corruption.



Media

Journalists and the media use Tor to protect their research and sources online.



Military & Law Enforcement

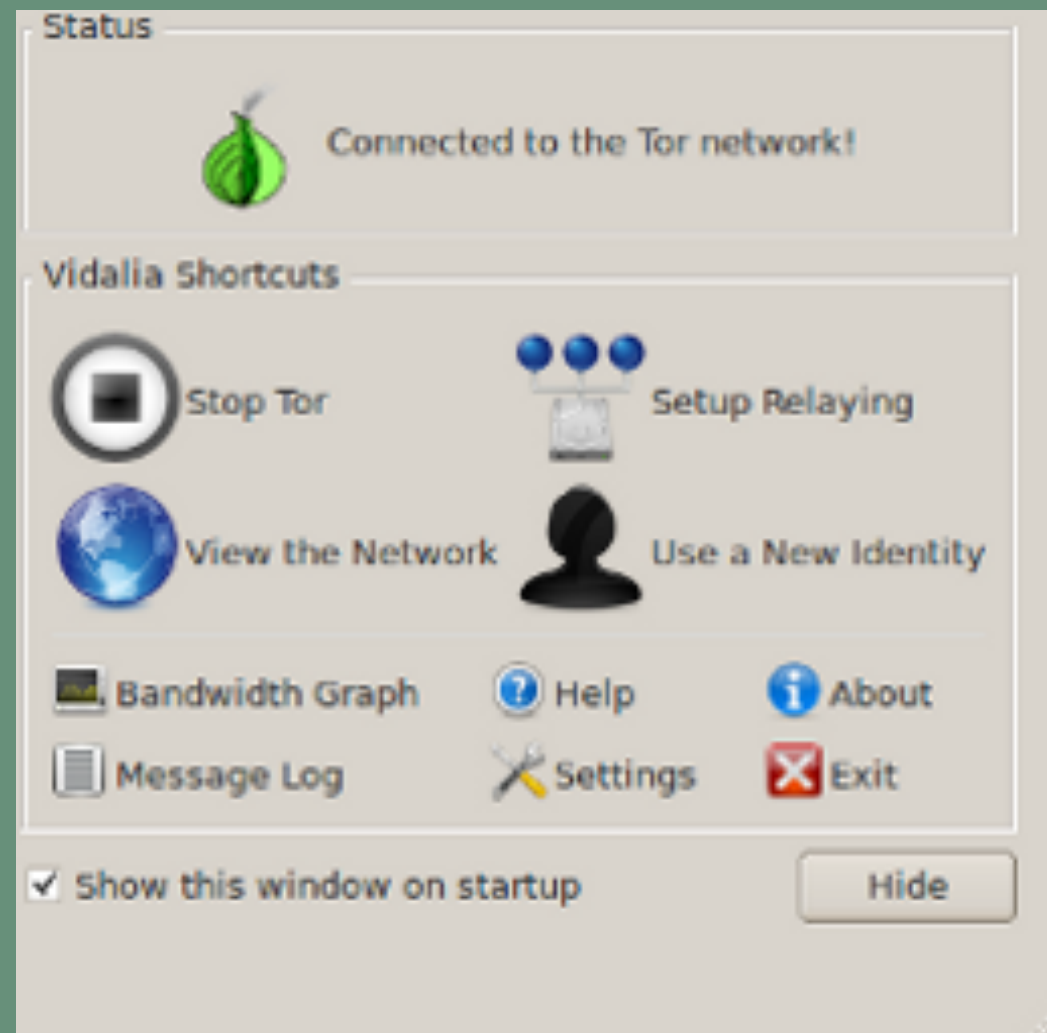
Militaries and law enforcement use Tor to protect their communications, investigations, and intelligence gathering online.

Announcements

Feb
5

Read Roger's [trip report about teaching the Dutch and Belgian police about Tor](#).

Vidalia



TorBrowser

Are you using Tor?



https://check.torproject.org/?lang=en-US&small=1&uptodate=1



Startpage



Congratulations. Your browser is configured to use Tor.

Please refer to the [Tor website](https://www.torproject.org/) for further information about using Tor safely. You are now free to browse the Internet anonymously.

Your IP address appears to be: 31.13.24.10

This page is also available in the following languages:

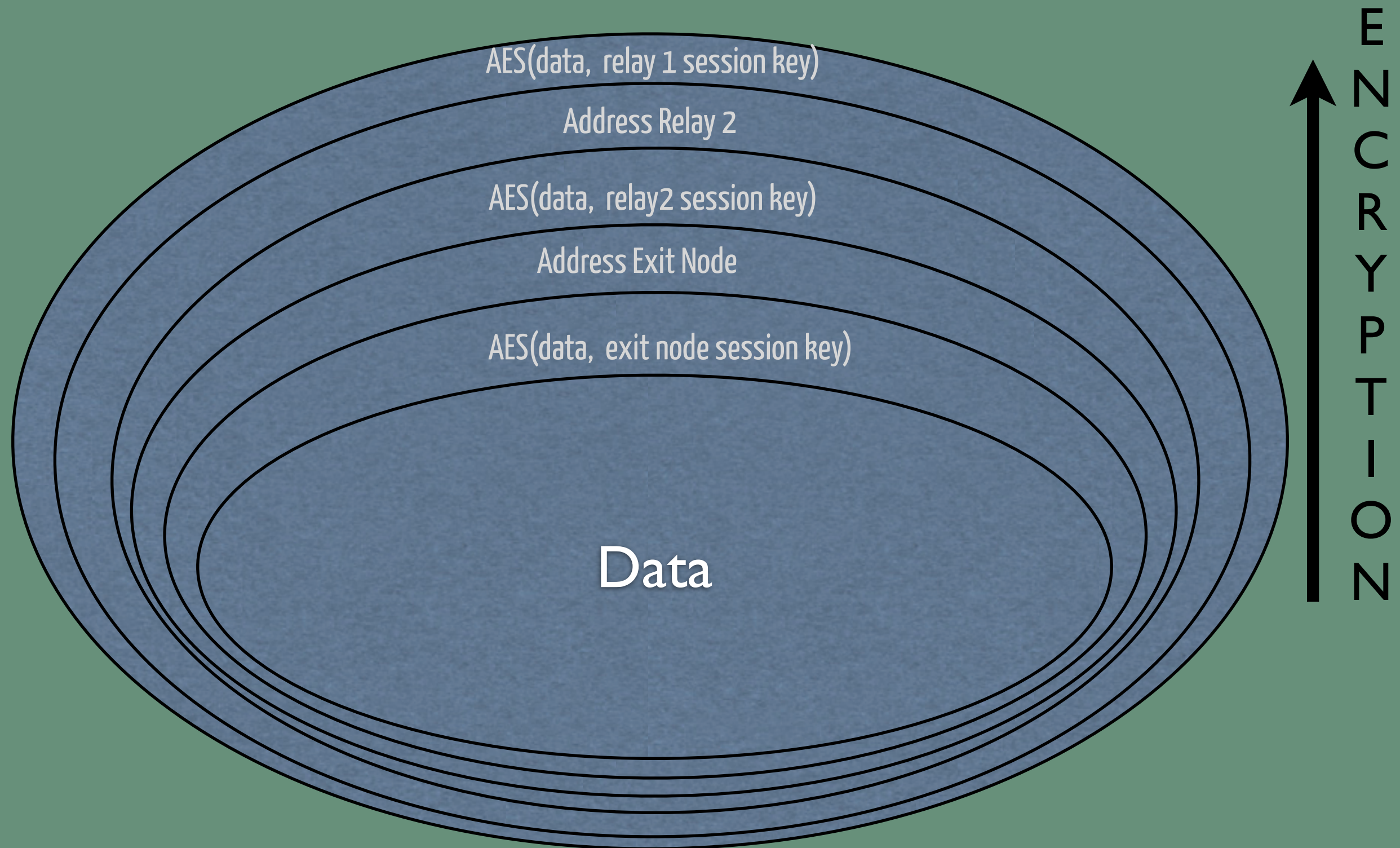
[عربية \(Arabiya\)](#) [Burmese](#) [česky](#) [dansk](#) [Deutsch](#) [Ελληνικά \(Ellinika\)](#) [English](#) [español](#) [Estonian](#) [فارسی \(Fārsi\)](#) [suomi](#) [français](#) [Italiano](#) [日本語 \(Nihongo\)](#)
[norsk \(bokmål\)](#) [Nederlands](#) [polski](#) [Português](#) [Português do Brasil](#) [română](#) [Русский \(Russkij\)](#) [Thai](#) [Türkçe](#) [українська \(ukrajins'ka\)](#) [Vietnamese](#) [中文 \(簡\)](#)

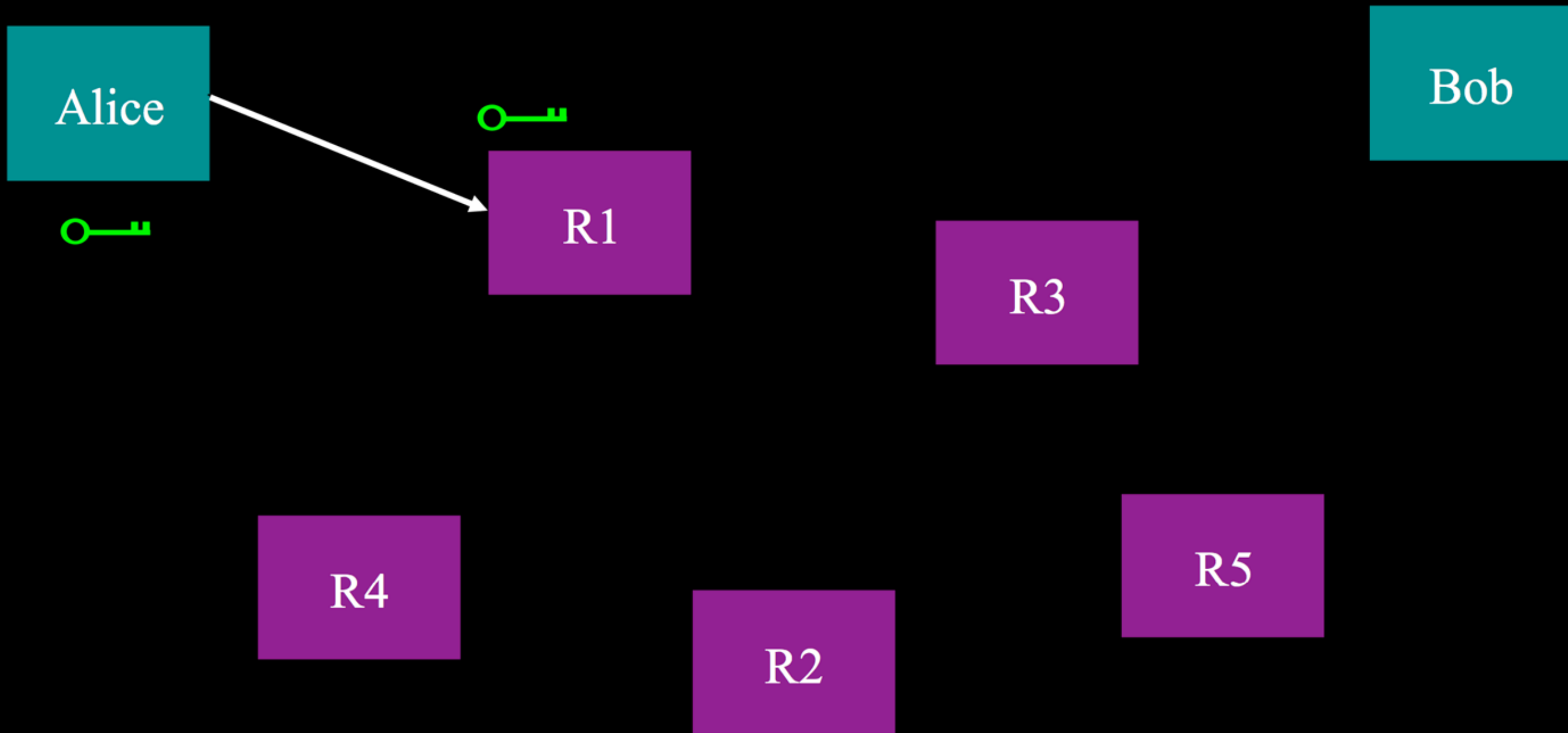
Onion Routing



Initialization : Exchange of session keys over TLS

Route Initialization





Alice

Bob

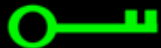
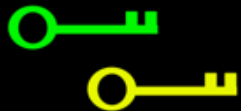
R1

R3

R4

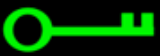
R2

R5



Alice

Bob



R1

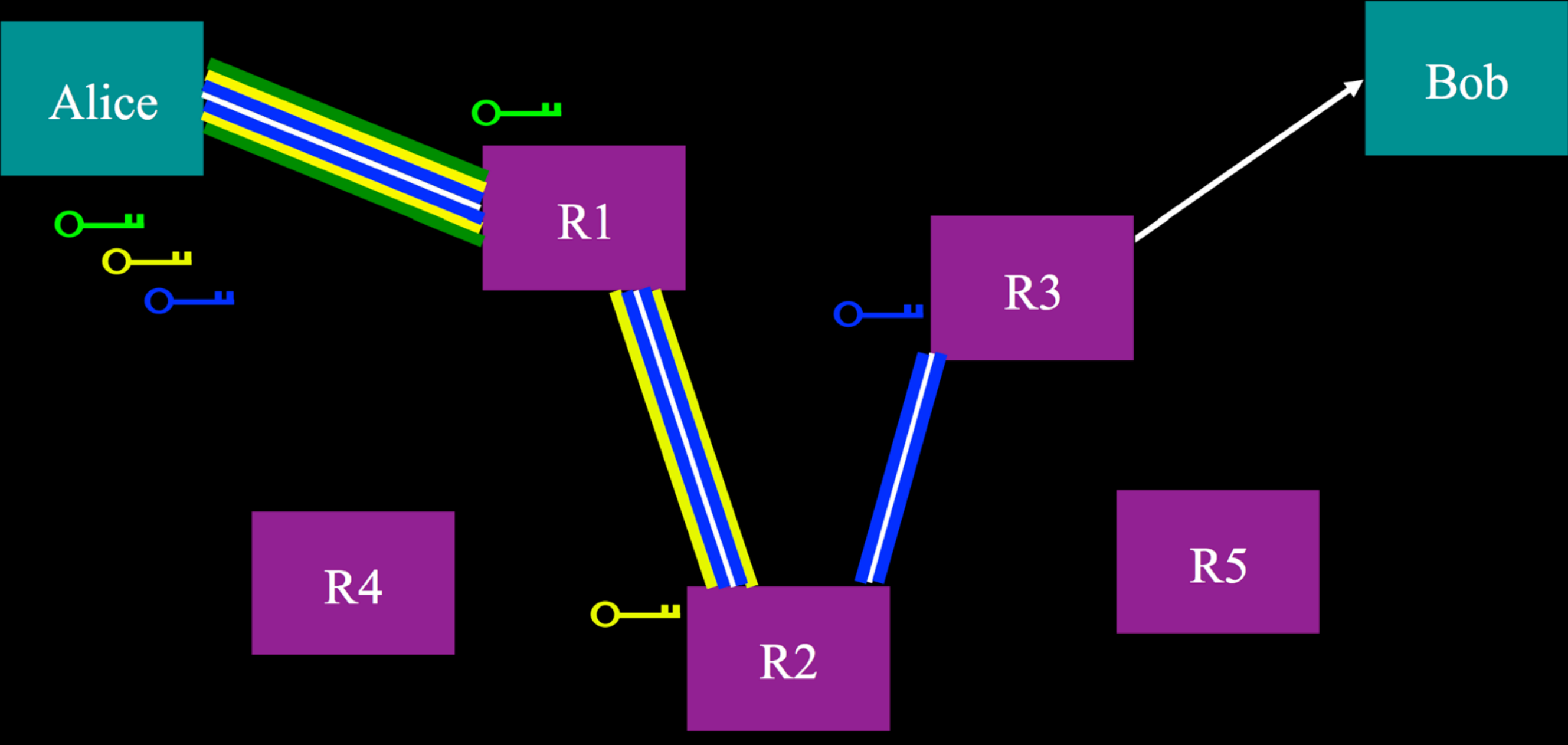
R3

R4

R2

R5





Socks

What can you do?

Relays

Bridges

Limitations

Bonus: Hidden Services