



Basic Research Services for Researcher Collaboration

Mrs. Maureen W. Musau
Senior Systems Administrator

**Half Day Research Infrastructure
Forum - May 18, 2016
At Safari Park Hotel**

1. eduroam



What are you accessing online?

- Email (work & personal)
- Social media
- Research Infrastructures



What is eduroam?

- eduroam (**education roaming**) is the secure, world-wide roaming access service developed for the international research and education community.
- eduroam allows students, researchers and staff from participating institutions to obtain Internet connectivity across campus and when visiting other participating institutions by simply opening their laptop

Source: www.eduroam.org

Advantages of eduroam

- Roaming of researchers to different institutions
- Enhanced security: encrypted communication via wireless
- Availability within Kenya worldwide

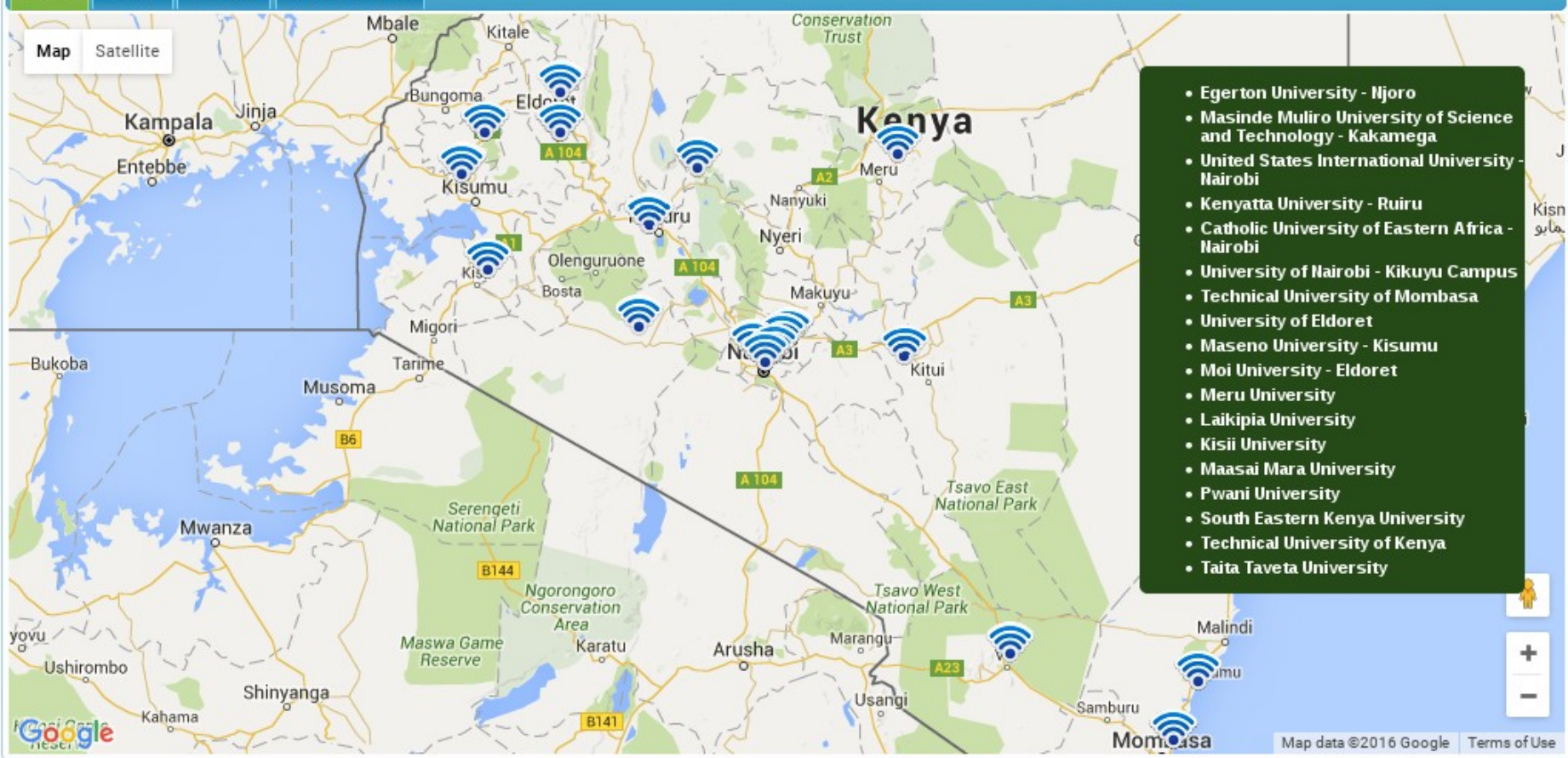


www.eduroam.ac.ke



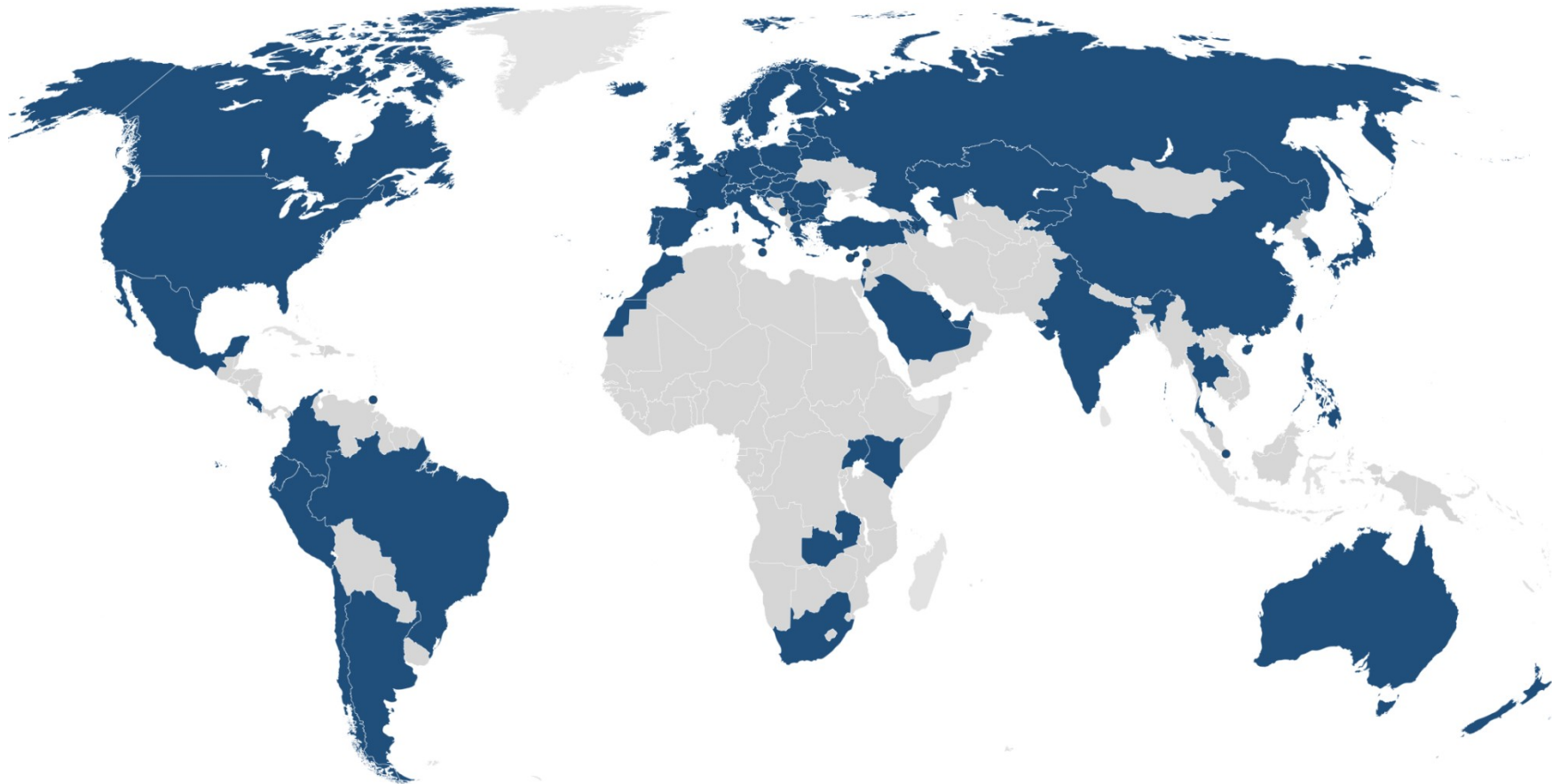
Home About How To eduroam policy

Map Satellite



- Egerton University - Iljoro
- Masinde Muliro University of Science and Technology - Kakamega
- United States International University - Nairobi
- Kenyatta University - Ruiru
- Catholic University of Eastern Africa - Nairobi
- University of Nairobi - Kikuyu Campus
- Technical University of Mombasa
- University of Eldoret
- Maseno University - Kisumu
- Moi University - Eldoret
- Meru University
- Laikipia University
- Kisii University
- Maasai Mara University
- Pwani University
- South Eastern Kenya University
- Technical University of Kenya
- Taïta Taveta University

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Having started in Europe, eduroam has gained momentum throughout the research and education community world wide and is now available in 76 territories world wide.

2. web/video conferencing

Conferencing Service

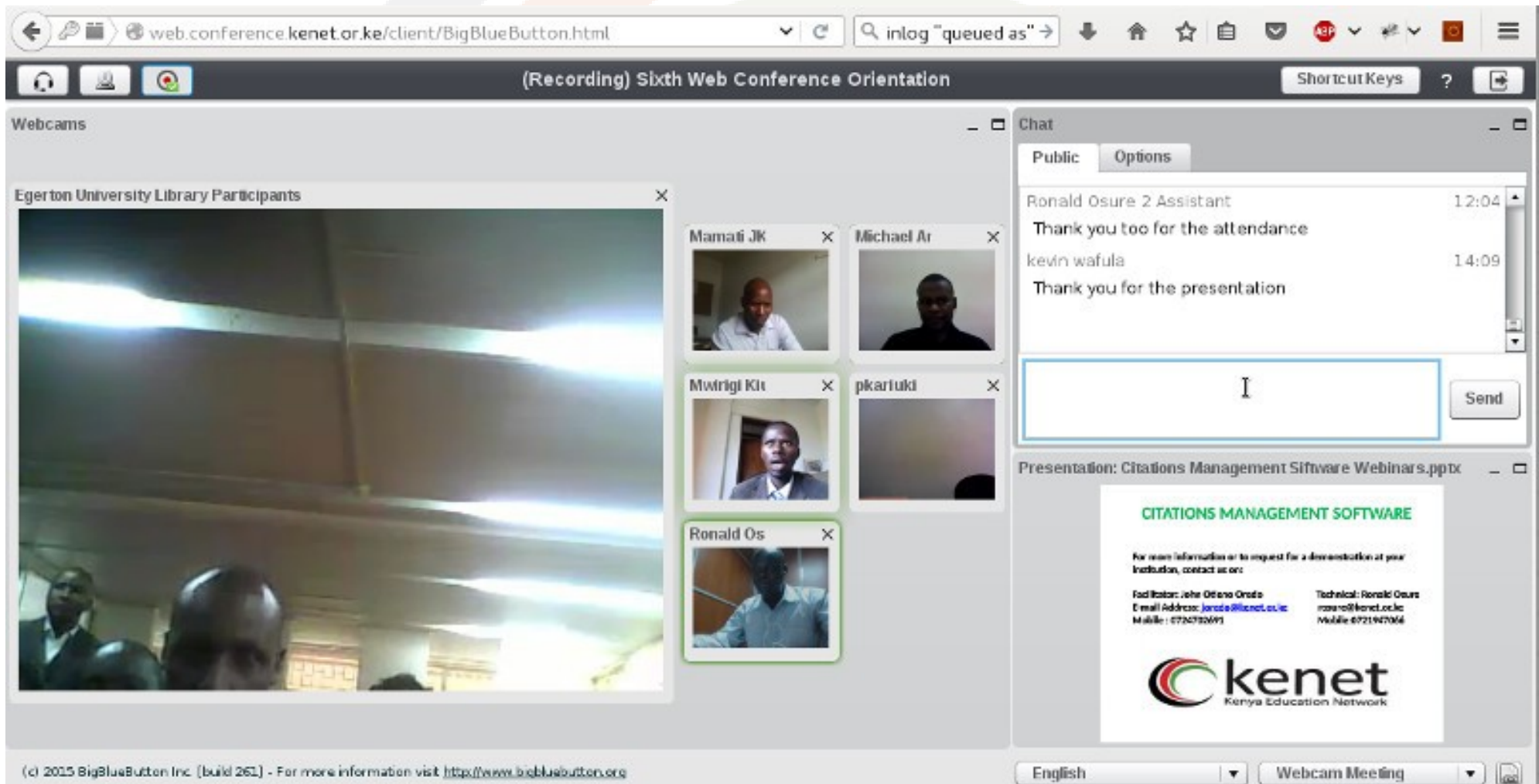
- Web Conferencing: Browser access
- Video Conferencing
 - Polycom Units in 5 PoPS
 - Product based: Vidyo
 - Software based

Web Conferencing Advantages

- Setup online class
- Can access on your laptop or mobile device
- No need to travel to meet; meet online from different locations
- Record sessions for future reference



Web Conferencing



The screenshot shows a web conferencing interface with the following components:

- Browser Address Bar:** `web.conference.kenet.or.ke/client/BigBlueButton.html`
- Page Title:** (Recording) Sixth Web Conference Orientation
- Webcams:** A large window titled "Egerton University Library Participants" showing a video feed of a meeting room. To its right is a grid of smaller video thumbnails for participants: Mamati JK, Michael Ar, Mwirigi Kit, pkariuki, and Ronald Os.
- Chat:** A chat window with "Public" and "Options" tabs. It contains messages from "Ronald Osure 2 Assistant" (12:04) and "kevin wafula" (14:09), both saying "Thank you for the attendance/presentation". There is a text input field and a "Send" button.
- Presentation:** A slide titled "CITATIONS MANAGEMENT SOFTWARE" with contact information for Joke Odino Orodia and Ronald Osure, and the Kenet logo.
- Footer:** (c) 2015 BigBlueButton Inc. [build 261] - For more information visit <http://www.bigbluebutton.org>

Live Demo of this workshop's streaming...

- URL:
<https://conference.kenet.or.ke/einfrastructures-forum/>
- Room password: 'research'

How to register



- URL → <https://conference.kenet.or.ke>
- Sign-up is online
- Manual account activation

Video Conferencing

- Product based ie Polycom hardware setup
 - Across 6 PoPs in Kenya (Mombasa, Nairobi, Nakuru, Eldoret & Maseno)
- Software based → Vidyo
 - Desktop based software application

- Software based: Install required software
- Can be accessed on laptop, mobile devices
- Setup online class
- Can access on your laptop or mobile device
- No need to travel to meet; meet online from different locations
- Record sessions for future reference



Vidyo Sample Quality



Interested in Web or Vidyo?



- Send an email to support@kenet.or.ke



3. Community Cloud Services (Servers & Storage)

KENET Data Center Services



- KENET operates two secure data centers at USIU and at UoN
 - ✓ Tier 3 data centers
 - ✓ Both are located at network hubs with 10 Gb/s ring interconnection
 - ✓ 4 power sources per data center; 5 fiber cables per data center

KENET Data Center

Services

- Virtualization: offers great choice of customization and flexibility for universities or researchers who want to host online applications and systems, research projects data, websites or even repositories.
- Co-location: Involves bringing physical servers to be hosted at the KENET data centers
- Disaster Recovery: Could either be a virtualization or co-location

KENET Data Center

Services



NO.	Description	Base
1	2.9Ghz vCPU	1
	RAM (GB)	2
	Hard Disk (GB)	100
	Cost Per Month	\$40
2	2.9Ghz vCPU	2
	RAM (GB)	4
	Hard Disk (GB)	200
	Cost Per Month	\$75
3	2.9Ghz vCPU	4
	RAM (GB)	8
	Hard Disk (GB)	500
	Cost Per Month	\$140

*Transforming education
through ICT*

- The KENET CERT is a team within KENET formed to study Internet security, discover vulnerabilities, and to provide assistance on security matters to the KENET community.
- It strives for a safer, stronger Internet for the education and research community in Kenya by:-
 - Responding to major incidents
 - Analyzing threats
 - Exchanging critical cyber security information within the community and also with other CERTs

Hacked by UnknownYmouz



Hacked By UnknownYmouz

Sorry Admin , im just test your Security ! Not Security is Perfect

Greetz To : UnknownYmouz - Mr.Pollong - Jagad Dot ID - All Indonesian Defacer

Contact me : angonkimcil007@yahoo.com

KENET CERT Services

- Facilitate the centralized reporting of incidents
- Perform Cyber Security training and raise the security awareness of users
- Resolving security related tickets as part of the KENET helpdesk
- Promote computer security policies within the KENET community by creating policies such as the web hosting policy, business continuity plan etc
- Alerts and Announcements
- Collaboration
- Incident Tracing
- Securing the KENET infrastructure by ensuring that network devices and systems are hardened before they go live

<https://cert.kenet.or.ke>

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Thank You

www.kenet.or.ke

Jomo Kenyatta Memorial
Library, University of Nairobi
P. O Box 30244-00100, Nairobi.
0732 150 500 / 0703 044 500