



# Routing & BGP Workshop

*IXAfrica DC, May 24<sup>th</sup> 2024*

## Welcome and Background

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# About this workshop

- Focus will be on improving BGP and routing knowledge and capacity
- Graciously supported by IXAfrica, LINX and Angani
- Format: talks/presentations and labs

# About KeNOG

- KeNOG is volunteer lead community that aims to enhance local technical capacity in the areas of **Network Operations, Internet Services, Internet Security, Automation, Storage & Cloud based services.**
- Goal: provide a platform for knowledge sharing & capacity building
- Website: <https://nog.ke>

## Workshop Sponsors



# Venue Information

- SSID:
- PASSWORD:

## Past events

- 2019: TechWeek
- 2020 – 2023 several webinars
- 2024 – in person events
- Please join the whatsapp group for more updates on upcoming events and activities
  - Links are on <https://nog.ke>
- Send us your suggestions to: [secretariat@nog.ke](mailto:secretariat@nog.ke)

# Why focus on BGP?

- The Internet is a large network of interconnected networks. There are ~74,000 networks on the Internet, each using a unique **Autonomous System Number (ASN)** to identify itself
- These networks each share information about how they are connected to neighboring networks.
- This information is shared using a protocol known as the Border Gateway Protocol (or BGP in short) by specialized devices known as routers.

## The Routing Problem

- Border Gateway Protocol (BGP) is based entirely on *unverified trust* between networks
  - No built-in validation that updates are legitimate
  - Anyone can announce anything
- Improperly configured BGP sessions leads to in-efficient routing, security breaches, privacy breaches
- Kenya's ISP networks are increasing hence the need to improve routing skills



# Today's Agenda

- Agenda: <https://ws.nog.ke>
- Experts from Kenya in routing/networking
- Please ask questions and interact
- A couple of labs
- Tour of the IXAfrica DC in the afternoon
- Please remember to fill the survey before leaving



**Thank You!**