



## TLNOG1 Workshop and Conference Report

**TLNOG1 Workshop - Internet Routing Workshop for Beginners**

- **Date** : 19 – 21 August 2024
- **Hours** : 09H00 – 17H30
- **Venue** : Conference Room, MTC Caicoli

**TLNOG1 Conference - Community Event/Gathering**

- **Date** : 22 August 2024
- **Hours** : 09H00 – 17H30
- **Venue** : Hotel Ramelau, Convention Hall



## Background

Timor-Leste NOG (Network Operator Groups) is a pioneering independent organisation committed to the advancement and enhancement of network operations within Timor-Leste. As a not-for-profit entity, we are unique in our autonomy, operating to bring the best practices of the region and the world to the unique requirements of the Timor-Leste internet community. TLNOG foundation is built on the principles of collaboration, education, and community development, striving to make a significant impact on the network operations landscape in Timor-Leste.

TLNOG mission is to empower network operators, IT professionals, and related stakeholders through a comprehensive array of educational and professional development opportunities. We believe in the power of knowledge-sharing and community engagement as key drivers for innovation and progress. By providing a platform for experts and enthusiasts to come together, TLNOG facilitate the exchange of ideas, experiences, and best practices that are crucial for the growth and sustainability of network operations.

TLNOG envision a future where Timor-Leste is recognized as a leader in network operations, supported by a well-connected and highly skilled professional community. Through our efforts, we aim to contribute to the country's digital transformation, ensuring that network infrastructure is robust, reliable, and capable of meeting the demands of a rapidly evolving technological landscape.

TLNOG is dedicated to maintaining the highest standards of excellence in all our activities. We are committed to inclusivity, ensuring that our programs are accessible to all, regardless of background or experience level. Our goal is to create an open and welcoming environment where every member of the community can thrive and contribute to the collective success of network operations in Timor-Leste.

More about TLNOG, please visit: [www.nog.tl](http://www.nog.tl)

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## Executive Summary

The inaugural Timor-Leste Network Operators Group (TLNOG1) Workshop and Conference was a resounding success, bringing together a diverse group of stakeholders from the Timor-Leste Internet community. The event provided a platform for knowledge sharing, networking, and collaboration, fostering a more robust and resilient Internet ecosystem in the country.

## Key Achievements

- **Capacity Building:** Participants gained valuable insights into a wide range of topics, including Internet infrastructure, network operations, security, and policy development.
- **Networking and Collaboration:** The event facilitated meaningful connections between network operators, policymakers, and other stakeholders, fostering collaboration and partnerships.
- **Policy Development:** Discussions on Internet governance and policy issues provided valuable input for shaping the future of the Internet in Timor-Leste.
- **Community Building:** TLNOG1 marked the establishment of a vibrant and active Internet community in Timor-Leste, providing a platform for ongoing engagement and knowledge sharing.

## Structure of the Program

This event is primary on the technical capacity building. Packed in the form of Conferences, Workshops, Lighting Talks, and Tutorials, by bringing speakers who are experts in their fields from within and outside the country to provide presentations and issues around the current Information and Communication Technology (ICT).

TLNOG1 event has two parts:

1. Three days Workshops, August 19 – 21, 2024
2. One day Conference, August 22, 2024

## Workshop Highlights

- **Technical Sessions:** Expert presentations covered topics such as IPv6 deployment, network security best practices, and routing protocols.
- **Hands-on Workshops:** Participants had the opportunity to gain practical experience through hands-on workshops on network configuration and troubleshooting.
- **Case Studies:** Real-world examples of Internet development and challenges in Timor-Leste were shared to inspire and inform participants.

### 1. Topic and Instructor

# TLNOG 1 Community Event - Internet Routing Workshop

Start 09:00 - 19 August 2024  
End 17:00 - 21 August 2024  
(UTC +9)

#### YOUR TRAINER



**Awal Haolader**

Network Analyst / Technical Trainer



#### START

Mon, 19 August 2024  
09:00 (UTC +9)

#### END

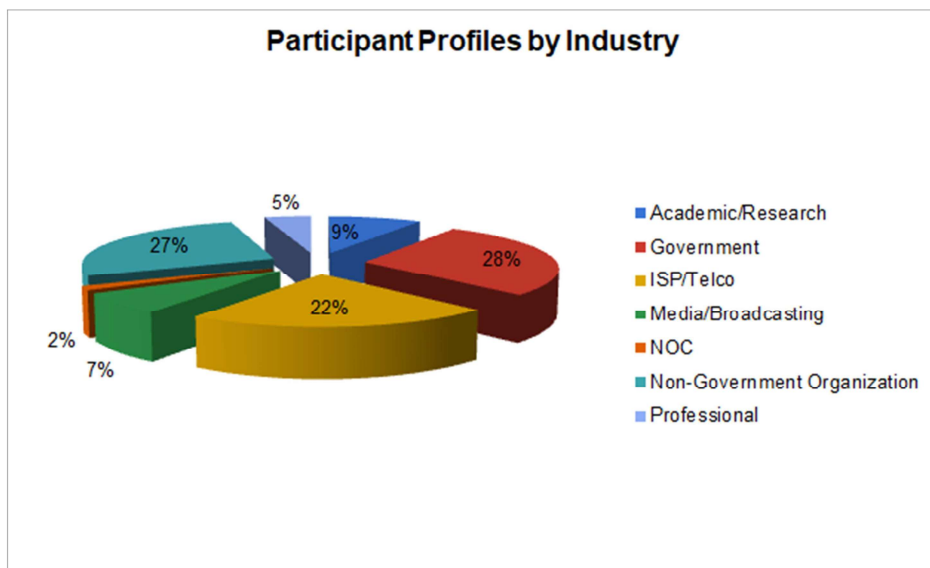
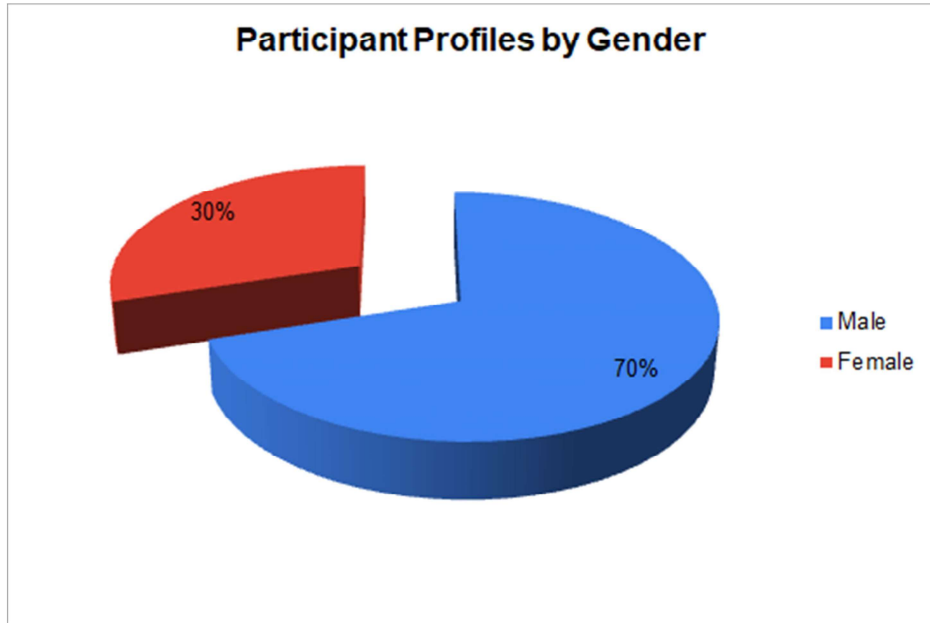
Wed, 21 August 2024  
17:00 (UTC +9)

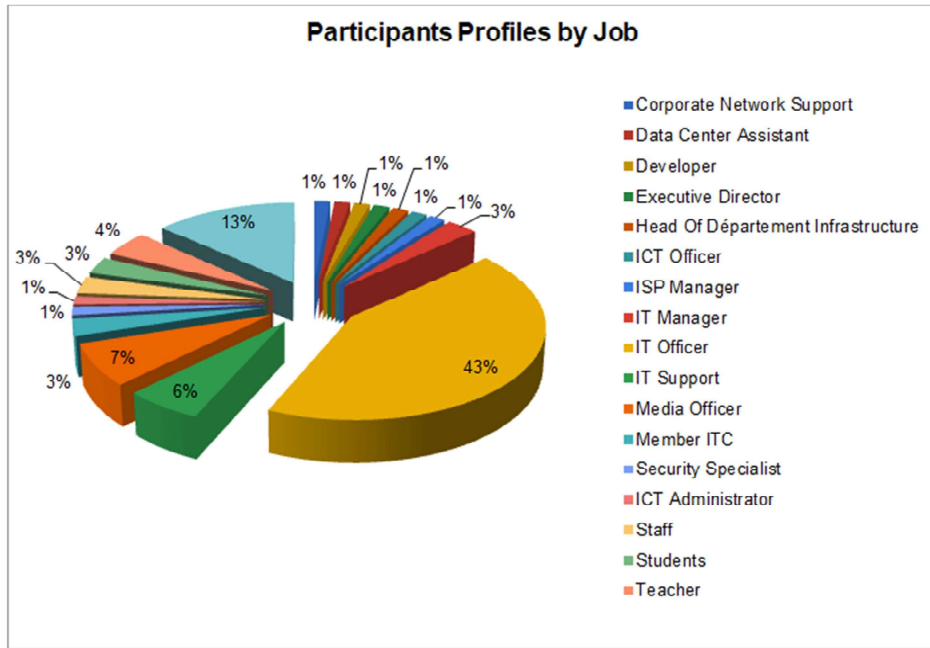
## 2. Programs

Workshop: August 19 – 21, 2024	Venue: Conference Room, MTC Caicoli
Day 1	<p><b>Introduction</b></p> <p><b>Routing Fundamentals</b></p> <p><b>Lab activity - Basic configuration</b></p> <p><b>IPv6 Protocol</b></p> <p><b>IPv6 Address Representation</b></p> <p><b>Instructor:</b> Awal Haolader (APNIC)</p> <p><b>Co-Instructor:</b></p> <p>Jemris Yeros (Timor Telecom)</p> <p>Jose Dias (Timor Telecom)</p>
Day 2	<p><b>Lab Activity - Interface and IP Configuration</b></p> <p><b>OSPF Fundamentals</b></p> <p><b>Lab activity - OSPF Configuration</b></p> <p><b>BGP Fundamentals</b></p> <p><b>Instructor:</b> Awal Haolader (APNIC)</p> <p><b>Co-Instructor:</b></p> <p>Jemris Yeros (Timor Telecom)</p> <p>Jose Dias (Timor Telecom)</p>
Day 3	<p><b>BGP Attributes</b></p> <p><b>Lab activity - BGP Configuration</b></p> <p><b>BGP Policy Control</b></p> <p><b>Wrap up and Closing</b></p> <p><b>Instructor:</b> Awal Haolader (APNIC)</p> <p><b>Co-Instructor:</b></p> <p>Jemris Yeros (Timor Telecom)</p> <p>Jose Dias (Timor Telecom)</p>

### 3. Workshop Participant

Number of participants in Workshops: 67





#### 4. Workshop Photo Group



Figure 1 - Photo group on second day of Workshop participants and the Instructor



## Conference Highlights

- **Keynote Speeches:** High-level speakers from government, industry, and international organizations provided insights into the global Internet landscape and its implications for Timor-Leste.
- **Panel Discussions:** Experts from various fields discussed key issues facing the Internet in Timor-Leste, including affordability, accessibility, and security.
- **Policy Dialogues:** Participants engaged in constructive dialogue on Internet governance and policy issues, contributing to the development of a policy framework that supports the country's Internet growth.

### 1. Speakers



#### Welcoming & Opening

##### Mr. Constantinho Ferreira Soares

Director General of the Ministry of Transportation and Communication (MTC)

The launch of TLNOG, a non-for-profit organization and officialy open the ceremony of conference session for TLNOG1.

Highlight on the current technology eveolution that Timor-Leste need to catch-up with the rest of the others countries in the world.



**APNIC Keynote Speaker**

**Mr. Che-Hoo Cheng**  
Senior Director of Development in APNIC

Role of APNIC on any internet community specially as a founding partner of TLNOG.

Provide any necessary support and advice. APNIC does not own TLNOG but community owned it.



**Internet Landscape of Timor-Leste**

**Mr. MD.Abdul Awal Haolader**  
Network Analyst / Technical Trainer APNIC

Cover some technical setup of some technology that being use in Timor-Leste viewed from outside.

Timor-Leste current sub-marine cable connectivity.



### **Pulse Measurement Platform**

**Aftab Siddiqui**

Senior Manager, Internet Technology – Asia Pacific

Measuring the Health and Resilience of the Internet: Timor-Leste.

Measure HTTP, IPv6 adoption and others.

Infrastructure, performance security and market readines.

Improvement need for Timor-Leste to catch up with all the rest of countries in the region.



### **ICT Governance – TIC Timor I.P.**

**Agostinho Ferreira**

Senior ICT at TIC Timor I.P.

E-Government and Information technology and communication as two of main program of nineth Govement that TIC TIMOR has commitment to make it to reallity.



### **EDUROAM: Why is it important for Timor-Leste?**

**Brook Schofield**

Secretary of the Global eduroam Governance  
Committee & Chair of the eduGAIN Steering Group

EDUROAM: A Global service that being roll-out not only for Timor-Leste but to be globally by Research Education and Institution.

Roaming Operator on Education, already production deployments and some still pilot deployments and as well as pendings.



### **HoneyPot & HoneyNet**

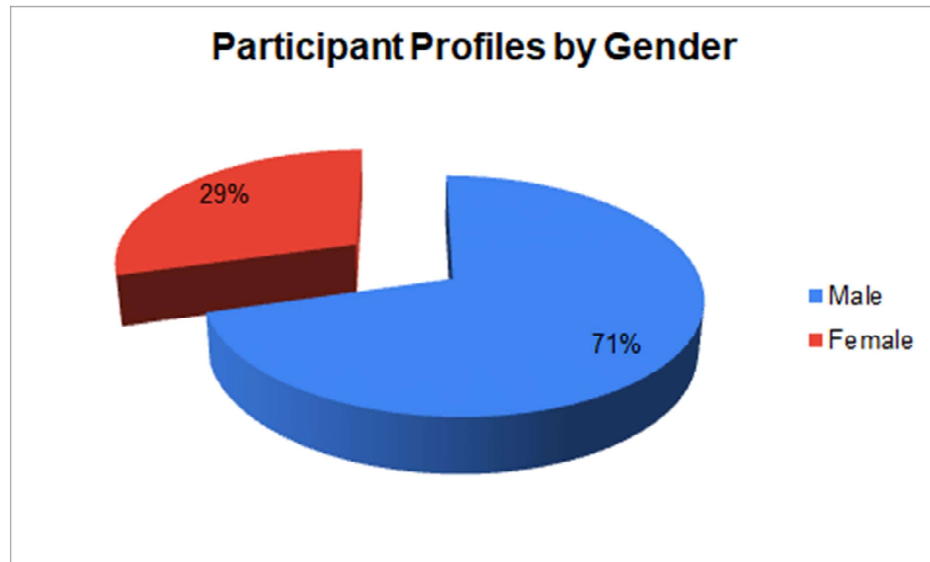
**Fabio de Magalhães**  
ICT Engineers

What is HoneyPot & HoneyNet? Types of Honeypot and how to deploy it.

What tools to use and any use cased or cenario. Benefit of the HoneyPot itself

## 2. Conference Participants

Total number of participants in the conference (Included: Committee, Instructor and Media News): 68



## 3. Panelist and an Open MIC



Figure 2 - Open MIC & Lightening talks with Four Panelist, issue related to routing, security and current sub-marine cable + starlink trend at Timor-Leste

#### 4. Conference Program

Conference: August 22, 2024	Venue: Convention Hall, Hotel Ramelau
<b>Session 1</b>	<b>Opening Plenary</b>
(09H00 – 10H30)	MC Opening
	Keynote Government Representative (Mr. Constantinho Ferreira Soares, DG/MTC)
	Welcome Note (Mr. Jose Dias, Chair Committee TLNOG)
	Keynote APNIC (Mr. Che-Hoo Cheng, Senior Director Development, APNIC)
	Internet Landscape of Timor-Leste (MD Abdul Awal Haolader, Network Analyst / Technical Trainer APNIC)
Break (10H30 – 11H00)	Morning Coffee/Tea
<b>Session 2</b>	<b>Where is Timor-Leste now – Technology Evolution</b>
(11H00 – 12H30)	Pulse Measurement Platform (Aftab Siddiqui / ISOC)
	ICT Governance – TIC Timor I.P (Agostinho Ferreira / Senior ICT)
Break (12H30 – 13H30)	Lunch
<b>Session 3</b>	<b>Closing</b>
(13H30 – 17H00)	Eduroam: Why is it important for Timor-Leste? (Brook Schofiel)
	Switch Project /APNIC Foundation (Abilio Bernardo Caldas / APNIC Foundation Timor-Leste National Coordinator)
	HoneyPot & HoneyNet

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(Fabio de Magalhães / ICT Engineers)
Open Mic & Lightening Talks (Jemris Yeros, MD Abdul Awal Haolader, Abrão Ximenes, Fabio de Magalhães / Panelist)
Closing Speech (Jose Dias / Chair Committee TLNOG)
Certificate of Appreciation to Sponsors (RedStar, APNIC, Metrolink, PCH, SACOMTEL, Timor Telecom, GardaMor ISP & MTC)
Token of appreciation to Speakers and Special Guest
Door Prize & Gift (The winners)
Closing Social (Photos, coffee together and goodbye to all Participants)

## 5. Conference Group Photo



Figure 3 - Photo group of all Conference participants at Convention Hall, Hotel Ramelau

## Links & Social media & mailing-list

- Portal - <https://www.nog.tl>
- Budgeting & Expenses – <https://myfund.nog.tl>
- Event pictures – <https://photos.nog.tl>
- WhatsApp Group - <https://chat.whatsapp.com/lrpSnJCfIRN1f101JO05DM>
- Orbit mailing list - <https://orbit.apnic.net/mailling-list/tlnog@nog.tl>
- Twitter - <https://x.com/TLNOG240108>
- Instagram - <https://www.instagram.com/tlnog240108/>
- Facebook page - <https://www.facebook.com/profile.php?id=61563606149275>
- Youtube channel - <https://www.youtube.com/@Timor-LesteNOG>



## Sponsors

Platinum



Gold



Silver



Bronze



Internet & Workshop

Venue



Drink Gota





# TLNOG

DILI, TIMOR-LESTE  
19 – 22 August 2024



Workshop & Conference Report

Thank You

Obrigadu

