

# Network Security and Packet Analysis Workshop

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**Dates:** 8-12 December 2019

**Venue:** Yala Durbar Venue, Shankhamul, Lalitpur

**Conference Page:** <https://npnog.org.np/npnog5/programs/>

## Synopsis

- The objective of this workshop is to examine the elements involved in establishing and maintaining security for a network, and building an understanding and familiarity with the operations.
- Device and network infrastructure security is also examined with a focus on establishing robust, stable, and secure networks.
- It also includes an introductory level packet analysis for those who are performing incident response and investigation. Participants will explore tools such as wireshark, bro, tcpdump and others for dissecting network packets related to security incidents.
- The workshop will also look at - Why BGP mishaps are very common and frighteningly very easy and explore current tools/techniques, and how route origin validation helps.

## Target Audience

- Engineers, Network Managers and Operators, and Security policy makers who are interested in network security and want to gain an understanding of the threats they face and how to mitigate such threats.

## Pre-requisites

- It is assumed that participants have a basic understanding of network operations, Internet technologies, OSI reference model and TCP/IP.

## Workshop topics

- Network security fundamentals
- Vulnerabilities and Mitigation on different layers of the TCP/IP stack
- Cryptography and PKI
- Device and Infrastructure Security
- Operational Security and Policies
- Intrusion detection and prevention
- Packet capture and analysis
- Honeypots and honeynet
- VPNs
- Cryptomining/cyrptojackning
- Resource PKI
- Route Origin Validation

## Other requirements

- Participants are advised to bring their own laptop computers with high-speed Wi-Fi

(802.11a/g/n/ac) and administrative access to system. It is also recommended that laptops have Intel i5 or i7 processor,  $\geq$ 8GB of RAM and 30GB of free hard disk space.

## Workshop Items

- [Agenda](#) (includes links to presentations and schedule)
- Instructors: [Bikash Bhattarai \(Dristi Tech\)](#), [Rupesh Basnet \(Om Networks\)](#), [Tashi Phuntsho \(APNIC\)](#)

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Last update: **2021/06/17 04:32**

