

Network Management and Monitoring (NMM)

Date: 20 October 2021

Location: Tutorial

Venue: Online

Synopsis

- The objective of this tutorial is to introduce Network Management and Monitoring concepts by giving an overview of Network fundamentals, Linux fundamentals and exploring some of the Free Open Source Software (FOSS) tools that can be utilised for Network Management and Monitoring.

Target Audience

- Engineers, Network Managers and Operators, and Security policy makers who are interested in Network Management and Monitoring and want to gain an understanding of how to utilise various tools to improve network telemetry.

Pre-requisites

It is assumed that participants have a basic understanding of:

- network operations, Internet technologies, OSI reference model and TCP/IP.
- Basic command line (CLI) skills.

We recommend the following Academy courses be completed before the start of the tutorial:

- Network security fundamentals: <https://academy.apnic.net/en/webinar-courses/network-security-fundamentals/>
- Routing Fundamentals: <https://academy.apnic.net/en/course/routing-fundamentals-course>
- Linux Virtual Lab: <https://academy.apnic.net/en/virtual-labs?labId=87395>

Tutorial topics

- Introduction to NMM
- Log management and Time series database
- Ticketing systems and documentation

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, ≥ 8 GB of RAM and 30GB of free hard disk space.
- Software: SSH Client, Telnet Client, VirtualBox/VMware
- Confirm Secure SHell (SSH) is allowed from the office or home network to access the lab infrastructure? Test ssh connectivity, try to connect to route-views.routeviews.org. For example from the CLI type: `ssh rviews@route-views.routeviews.org`

Workshop Items

- [Agenda](#) (includes links to presentations and schedule)
- Instructors: Dave Phelan(APNIC), Sonam Penjar, Manoj Adhikari

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