

# Network Services and Monitoring Online Course

## Background

This is an intermediate level course for network and system engineers/administrators aiming to get operational experience with IPv6 with a focus on specific Internet services provided by Internet Society. The course covers the following main areas:

- Authoritative DNS
- Introduction to Email
- Network Monitoring

The course is strictly 3 weeks long. Each trainee will be assigned a virtual server and will be required to build working services as mentioned above to provide services on an IPv6 address. The course is lab intensive (70%) with trainees provided with theory materials that they can read. Trainees are also encouraged to do their own research in order to cover the concepts in the course.

## Course Timetable

The course follows the following schedule:

### Week 1:

- Introduction to DNS
- DNS Resolvers
- DNS Authoritative
- LAB ASSIGNMENT 1: install BIND
- LAB ASSIGNMENT 2: Zone set up
- LAB ASSIGNMENT 3 : Zone file creation

### Week 2:

- Email introduction
- Postfix Dovecot Introduction
- LAB ASSIGNMENT 4: create MX record for your mail server
- LAB ASSIGNMENT 5: Install Postfix and Dovecot
- LAB ASSIGNMENT 6: Setup Postfix and Dovecot

Optional Part - Securing mail system :

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- LAB ASSIGNMENT 7 SENDING EMAILS
- LAB ASSIGNMENT 8 Apache setup
- LAB ASSIGNMENT 9 letsencrypt Part01

- LAB ASSIGNMENT 10 letsencrypt Part02
- LAB ASSIGNMENT 11 Configure Dovecot
- LAB ASSIGNMENT 12 Configure Squirrel-mail

Week 3:

- Nagios Introduction
- LAB ASSIGNMENT 13 Installing Nagios
- LAB ASSIGNMENT 14 monitor DNS on localhost

## Pre-Requisites to attend

- Completion of the Introduction to UNIX/Linux and Networking Course.
- A Computer system with at least 2 browsers (Chrome and Firefox preferred).
- Good Internet Connectivity.

## Our Certified Participants

Meet our certified Participants who complete the online course successfully.

## Participants' Feedback

What former participants say about the courses.

## Language

Language of instruction will be English.

## Moderation and Online Support

This course will be moderated by **Eng. Manhal Mohamed** & assisted by **Eng. Abdulrahman Mohammed Hassan**.

Online remote support is available via Email or Telegram.

## Offline Content

Offline training materials are available and are frequently updated.

## Registration Form

[https://docs.google.com/forms/d/e/1FAIpQLSejyyl1yVwFjOFqNAjTUwr4irmh0YY5hv1Dv3HmOY2L24dCsw/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSejyyl1yVwFjOFqNAjTUwr4irmh0YY5hv1Dv3HmOY2L24dCsw/viewform?usp=sf_link)

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