# Networking Best Practices Workshop

## Introduction

This tutorial is aimed at teaching Best Practices in network deployment. The intent is to sensitise operators, and participants to things that they should be aware of, from a macro level, and to stimulate discussion, interest, and knowledge in the mechanisms for operation. It is not intended for this to be extremely low level.

## Layout

The key ideas would be to talk about issues that operators should be engaged in already, in a 90min slot. Some topics for discussion could be:

- the proper use of NMS systems
- configuration management
- IGP and EGP configuration and setup
- routing and Switching
- scaling virtualisation deployments

Since this would be tutorial style, it's intended for the discussions to be as interactive as possible, and, where possible, include hands-on practical sessions. It is also intended to be an introductory/refresher tools that we can use to gauge interest, and competency, that will allow us to plan for future workshops.

Note: sdnog-1 attendance showed us a significant student population attending, so we expect that this workshop would be more appealing to them, vs. a more low-level, specific workshop on a particular topic.

A suggestion for the tutorial scheme could be:

| | **Day 1** | **Day 2** | **Day 3** |
|---|---|---|---|
| Session 1 | IP address space design and planning | Routing - IGP and EGP best practices | DNS |
| Session 2 | IPv6 and its role in your network | BCP 38 and routing sanity | Configuration management |
| Session 3 | Designing a switching environment | Network management systems | RIPE ATLAS Tutorial |

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| Session 4 | Designing a switching environment (cont) | Network management systems | Open Q&A |

## Instructor List

It is desirable that the instructor be experts in their respective areas of presentation, and have significant experience in the topics that they are presenting. Additionally, a good mix of local, and foreign expertise would be desirable, to allow for different points of perspective.

- Christian Teuschel
- Daniel Shaw
- Hiba Abbas
- Nishal Goburdhan
- Patrick Okui
- Sirag Aldeen Mahgoob

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