

.ZW DNS Operations Webinar and Lab

Webinar Objectives

The Domain Name System (DNS) is a globally distributed database and a critical part of Internet infrastructure that translates domain or host names to IP addresses, a required process for web navigation, email delivery, and other Internet functions. This workshop aims to help networking professionals to understand DNS server configurations, DNS operations and an overview of DNS security concepts. This 2-day course will discuss the content below in detail and culminate in participants getting involved in a hands-on lab exercise in the cloud.

	TOPIC	FACILITATOR	DURATION	PROPOSED DATE
1	DNS 101 Webinar: <ul style="list-style-type: none">● Domain Name System (DNS) Concepts● DNS Resolver and Authoritative Server● DNS and IPv6● Reverse DNS● Introduction to Bind● Zone Files● Using Dig	Paul	10.00 AM – 11.30 AM (90 mins)	15/04/2021
2	DNS Operations Lab <ul style="list-style-type: none">● Setting up and Configuring both a forward and reverse zone in Bind● Testing zone configurations using dig● DNSSEC validation● Trust Anchors operations● Q&A an playing with the lab	Paul and Yazid	12.00 PM – 1.00 PM (60 mins) (Getting started with the lab - participants will be offered the entire afternoon and evening to complete the lab exercises)	15-16/04/2021

Lab Requirements

Participants are requested to bring their own laptop computers with following requirements:

- At least 4GB of RAM
- Administrative access to system
- Current version of Chrome or a Chromium based browser
- (Optional) for Windows/Mac/Linux laptops - Virtual Box installation

*The lab will be conducted on the cloud, but a Virtual Box image will also be provided to download.

Prerequisites

Participants are recommended to be familiar with using the terminal or command line.

Webinar and Lab Sessions

- 15/04/2021: 10.00 AM – 11.30 AM Harare Time | DNS 101 WEBINAR
- 15/04/2021: 12.00 PM – 1.00 PM Harare Time | DNS OPERATIONS LAB
- 16/04/2021: 10.00 AM - 11.00 AM Harare Time | Lab Q&A session