

LINUX FUNDAMENTALS

This course provides an introductory overview of Linux foundations, management, and security. This introduction course is designed to equip you with basic operational skills for the Linux command line, for example, file system layout, using Vim, viewing logs, package management, and some administration. This course is not intended to make you an expert, but rather to familiarize you with enough Linux to succeed.

This is the first course in the Elastic Network Security Analyst Learning Plan. Please review the pre-reqs section for additional information.

LESSONS

All lessons include a hands-on lab.

History and Basics

Learn some background on the rise of the Linux Operating System and basic structure for understanding how a user interacts with a command line environment.

Fundamentals Commands

Learn some fundamentals commands that will serve as the foundation for understanding how to perform basic functions within a Linux command line.

Searching and Filtering

Take advantage of the Linux toolset and learn how to combine commands together while searching and filtering through the file system.

Administration

Learn some basic techniques to get general information from a Linux system. Whether performing actual administrative tasks, gathering information, or even performing incident response – these initial applications, or tools, will serve as a good start into basic admin functions.

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COURSE INFORMATION



Audience

Security Analysts
System Administrators



Duration

8 hours



Language

English



Prerequisites

- Linux Fundamentals
- Network Protocol Analysis
- Packet Analysis
- Intrusion Detection System (IDS) log analysis with Suricata
- Network Metadata log analysis with Zeek
- Kibana Security Analyst



Requirements

- Stable internet connection
- Mac, Linux, or Windows
- Latest version of Chrome or Firefox (other browsers not supported)
- Disable any ad blockers and restart your browser before class

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Changing Files

Learn how to interact with and modify files. Topics include redirection and how to make standard modifications within Linux.

Text Editors

In a command line environment, you don't have access to a pretty user interface, so you must use CLI based text editors to accomplish those tasks. Review two examples and how to utilize them.

Permissions

Finally, learn some system level privileges and file permissions.