

Building a Practice Lab

This network infrastructure and simulation training course prepares learners to build a practice lab using VIRT, GNS3, and Wireshark. Once your lab is set up, you'll be able to simulate network nodes, switches, ports, and more—and practice configuring them. Building a practice lab with this course is like investing in a quality set of power tools: you'll be more capable and ready for future projects.

[CBT Nuggets course material](#) →

WEEK 1

Build a Physical Cisco Lab Environment

151 min.

Introduction to Build a Physical Cisco Lab Environment	1
Why Use a Physical Lab?	9
Understanding Common Switch Models	8
Understanding Common Router Models	6
Understanding Device Memory Requirements	6
Understanding Common Modules	13
Performing Password Recovery	14
Building a CCNA Lab Environment	13

Set Up Packet Tracer for Hands-On Cisco Practice

Overview	1
Why You'll Benefit from Packet Tracer	4
Getting and Installing Packet Tracer	2
Configuring Your First PT Network	15
Getting Physical	4
Visualizing Network Traffic with Simple PDUs	13
Visualizing Network Traffic with Complex PDUs	10
Replicating a Physical Rack	10
Using Packet Tracer on your Tablet	5
Final Challenge and Review	11

Introduction to Wireshark

Overview	1
Introduction to Wireshark	1
Uses of Wireshark	1
Being Promiscuous	1

WEEK 2

19 min.

Saving our Work for Later	1
Exporting Things From Wireshark	1
Filtering Results	1

Wireshark Display Filters

Overview	1
Wireshark Display Filters	1
To the Boolean-Mobile!	1
Knowing the Basic Filters	1
Expanding on Basic Filters	1
Syntax is Everything	1
Apply Filtering to Live Capture	1

Advanced Wireshark

Overview	1
Advanced Wireshark	1
Magic Numbers	1
Regular Expressions	1
BPF Filtering	1
Supplemental Material	1